PB84-226760

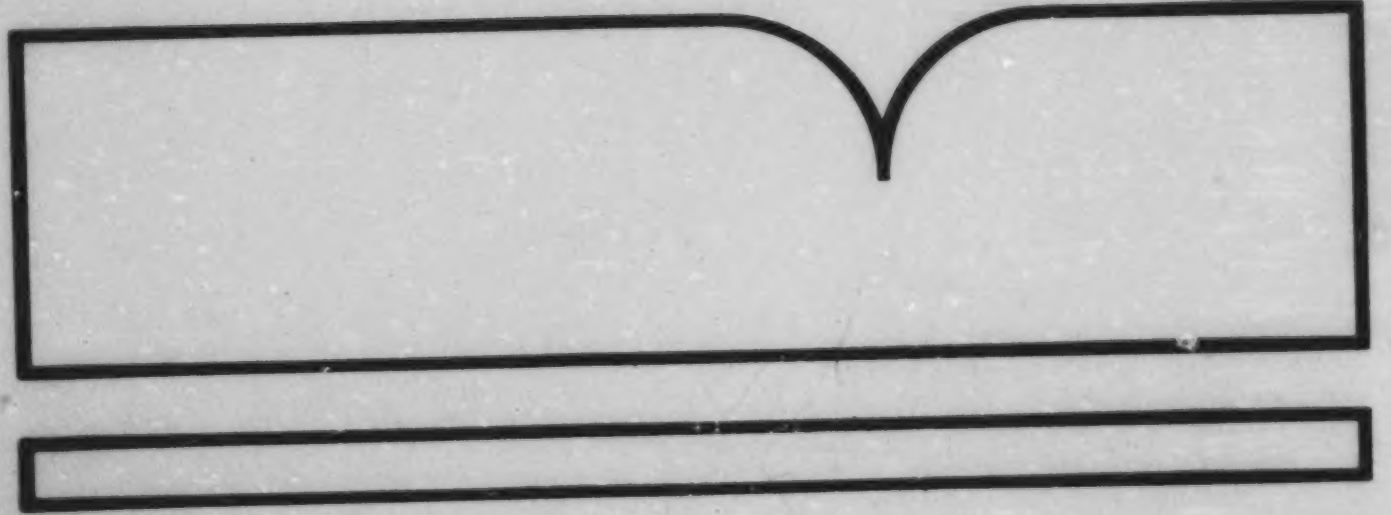
BACT/LAER (Best Available Control Technology /Lowest Achievable Emission Rate) Clearinghouse A Compilation of Control Technology Determinations. Volume 2A. Appendix G. Source Type Codes 1.0-5.0

PEDCo-Environmental, Inc., Cincinnati, OH

Prepared for

Environmental Protection Agency
Research Triangle Park, NC

May 84



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TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO.	2.	3. RECIPIENT'S ACCESSION NO.
EPA-450/3-84-013B		PB84 226760

4. TITLE AND SUBTITLE	5. REPORT DATE
BACT/LAER Clearinghouse - A Compilation of Control Technology Determinations: Volume II-A, Appendix G - Source Type Codes 1.0-5.0	May 1984 (Date of Issue)
	6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S)	8. PERFORMING ORGANIZATION REPORT NO.
David Dunbar, PEDCo Gary Rust, U.S. EPA	
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT NO.
PEDCo Environmental, Inc. Chester Towers 11499 Chester Road Cincinnati, Ohio 45246	11. CONTRACT/GRANT NO. 68-02-3512 Work Assignment No. 60
12. SPONSORING AGENCY NAME AND ADDRESS	13. TYPE OF REPORT AND PERIOD COVERED
U.S. Environmental Protection Agency Office of Air Quality Planning and Standards Emission Standards and Engineering Division Research Triangle Park, North Carolina 27711	Task Final 14. SPONSORING AGENCY CODE

15. SUPPLEMENTARY NOTES This report will be supplemented from time to time as new determinations require. Users of this report should contact Regional Offices to get the number of subsequent reports.

16. ABSTRACT

This volume contains the detailed source listings for the determinations submitted in source type code 1.0 through source type code 5.0.

The detailed source listing normally contains the following information: source type and size; company name and location; whether determination was BACT or LAER for new or modified source; the person, agency and phone number that made the determination; permit issue date; estimated date of start-up; processes subject to this permit; through-put capacity; pollutant(s) emitted; emission limits; control equipment or process modification; a section for notes; and review status dates.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS		b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Air Pollution	Nitrogen Oxides	Air Pollution Control	
Industrial Processes	Scrubbers	Stationary Sources	
Combustion Sources	Baghouses	BACT	
Control Equipment	Electrostatic Precipitators	LAER	
Coal		Sulfur Dioxide	
Oil		Particulate	
Bark		VOC	

18. DISTRIBUTION STATEMENT	19. SECURITY CLASS *(This Report)*	21. NO. OF PAGES
Unlimited	Unclassified	582
	20. SECURITY CLASS *(This page)*	22. PRICE
	Unclassified	

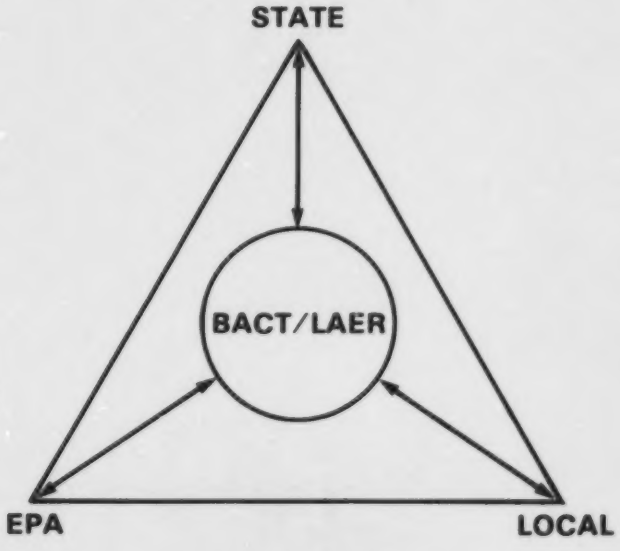
EPA Form 2220-1 (Rev. 4-77) PREVIOUS EDITION IS OBSOLETE

PB84-226760

BACT/LEAR Clearinghouse—

A Compilation Of Control Technology Determinations

Volume IIA
Appendix G
Source Type Codes 1.0-5.0



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INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

Developed As Part Of A Joint Effort
Between The U.S. Environmental Protection Agency
And State And Local Air Pollution Control Agencies

May 1984

BACT/LAER Clearinghouse

Prepared By

Emission Standards And Engineering Division

U. S. Environmental Protection Agency
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

May 1984

DISCLAIMER

This report was prepared by PEDCo Environmental, Inc., Cincinnati, Ohio, under Contract No. 68-02-3512, Work Assignment No. 60. It has been reviewed by the Emission Standards and Engineering Division of the Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the U.S. Environmental Protection Agency. Mention of trade names or commercial products is not intended to constitute endorsement or recommendation for use. Copies of this report are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161.

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APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1780.00 MW

COMPANY NAME/SITE LOCATION AL ELEC COOP INC ANDALUSIA, AL 36420
P. O. BOC 550 CHOCTAW COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AL 071
DETERMINATION MADE BY ALABAMA APCD (AGENCY) SUE ROBERTSON (AGENCY CONTACT PERSON) (205)-834-6570 (PHONE)
DATE OF PERMIT ISSUANCE-- 02/24/81
ESTIMATED DATE OF START-UP-- 1986

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS		CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIGNITE BOILER	4805.00 MMBTU/H EA					
		PM	144.0000	LB/H		NSPS
			631.0000	T/YR		
					ESP	99.80
		SO2	3803.0000	LB/H		NSPS
			16658.0000	T/YR		
					FGD	90.00
		NOX	2883.0000	LB/H		NSPS
			12628.0000	T/YR		
					BOILER DESIGN & OPERATION	
		CO	470.0000	LB/H		BACT
			2060.0000	T/YR		
					BOILER DESIGN & OPERATION	

NOTES ----------
ESTIMATED STARTUP DATES -- UNIT 1, 3/86 - UNIT 2, 5/91 - UNIT 3, 7/96 - UNIT 4, 9/01.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 14.80 MW

COMPANY NAME/SITE LOCATION AMERICAN LIGNITE PRODUCTS IONE, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. SJ 83-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) JOE SLAMOVICH (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/10/84
ESTIMATED DATE OF START-UP--
(415)-974-8235 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMBUSTOR, FLUIDIZED BED	23.80 T/H				
		NO2	61.5000 LB/H	CIRCULATING FLUIFIZED BED	
		CO	34.2000 LB/H	CIRCULATING FLUIDIZED BED	
		SO2	65.0000 LB/H	LIMESTONE INJECTION	94.30
		PM	7.5000 LB/H	BAGHOUSE	99.90

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 17.00 MW

COMPANY NAME/SITE LOCATION AMERICAN LIGNITE PROD. CO. IONE, CA

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY AMADOR COUNTY APCD (AGENCY) EARL WITHYCOMBE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/21/83
ESTIMATED DATE OF START-UP-- 1985
(916)-862-1233 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLUID BED COMBUSTION	240.00 MMBTU/H				
		PM	0.0156 GR/DSCF		BACT
				BAGHOUSE	99.93
		SO2	115.0000 PPM		BACT
				LIMESTONE BED	94.25
				1.5% S FUEL	
		NOX	150.0000 PPM		BACT
				FLUID BED	
				STAGED COMBUSTION	
		CO	138.0000 PPM		BACT
				STAGED COMBUSTION	

NOTES ----------
RECIRCULATING FLUID BED INCREASES SO2/LIMESTONE INTERACTION AND CAPTURE, MAINTENANCE OF BED TEMPERATURE AT 1560 F KEEPS NOX PR
COUCTION LOW, BAGHOUSE FOLLOWS RECIRCULATING CYCLONE AND MULTICLONE FOR PARTICULATE CONTROL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 350.00 MW

COMPANY NAME/SITE LOCATION ARIZONA PUBLIC SERVICE CO., CHOLLA UNIT* JOSEPH CITY, AZ

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AZP 78-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) JIM HANSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/15/78
ESTIMATED DATE OF START-UP--
(415)-974-8038 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER	350.00 MW	PM	0.0500 LB/MMBTU	ESP	
		SO2	0.0720 LB/MMBTU	WET LIMESTONE SCRUBBING	94.00
				LOW S COAL	
		NOX	0.7000 LB/MMBTU		NSPS
COAL HANDLING AREAS		PM		DUST CONTROL SYS	
LIMESTONE HANDLING AREAS		PM		DUST CONTROL SYS	

NOTES ----------
THE DEGREE OF CONTROL WAS PROPOSED BY CO. IN ITS APPLICATION. FUGITIVE D UST SHALL BE CONTROLLED DURING CONSTRUCTION BY WATER SPRAY. BOTTOM ASH SHALL BE PUMPED TO A SPRAY POND. ASH SHALL BE MIXED WITH WASTE SLUDGE FROM SO2 ABSORBERS AND OR WASTEWATER FROM COOLING TOWER AND TRANSPROTED IN A SLURRY TO A SEPERATE DISPOSIAL AREA

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 800.00 MW

COMPANY NAME/SITE LOCATION ARKANSAS PWR & LT CO. NEWARK, AR
INDEPENDENCE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-AR-48
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL-FIRED STEAM GEN	800.00 MW				
		SO2	0.9300 LB/MMBTU	LOW S WESTERN COAL	NSPS
		PM	0.1000 LB/MMBTU	ESP	99.50

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER AR 0021

SOURCE TYPE CODE 1.1

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 730.00 MW

COMPANY NAME/SITE LOCATION ASSOC. ELECT. COOP., INC.
THOMAS HILL STATION , MO
RANDOLPH COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)

DATE OF PERMIT ISSUANCE-- 02/06/78
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED (UNIT 3), PU*	6588.00 MMBTU/H				
		SO2	1.2000 LB/MMBTU		BACT
				WET LIMESTONE SCRUBBER	90.00
		PM	0.1000 LB/MMBTU		BACT
				COLD-SIDE ESP	99.70
		NOX	0.7000 LB/MMBTU		NSPS
				BOILER DESIGN	

NOTES ----------
PLANT NAME- THOMAS HILL (EXISTING UNIT 1 - 180MW, NET, EXISTING UNIT 2 - 303 MW, NET). THE NEW UNIT 3 IS SUBJECT TO NSPS, SUBPART D. EXISTING UNITS 1 AND 2 WILL BE LIMITED TO 8.0 LB SO2/MMBTU (3-HR. AVG.) BECAUSE OF POSSIBLE AMBIENT STANDARD VIOLATIONS. THE EXISTING UNITS WILL BURN WASHED COAL (4.5% S BY WT.). UNIT 3 WILL BURN UNWASHED COAL (5.5% S BY WT.). MISSOURI COAL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION BASIN ELECTRIC POWER COOP. BEULAH, ND

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY NORTH DAKOTA SHD (AGENCY) ROBERT KING (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/12/83
ESTIMATED DATE OF START-UP-- 1987
(701)-224-2348 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	6278.00 MMBTU/H	PM	188.0000 LB/H		NSPS
			0.0300 LB/MMBTU		
				BAGHOUSE	99.86
		SO2	2637.0000 LB/H		BACT
			0.6000 LB/MMBTU		
				SPRAY DRYER	88.00
		SO2	30.0000 % OF POTENT. COMBUST. CONC.		
		NOX	2825.0000 LB/H		BACT
			0.4500 LB/MMBTU		
				COMBUSTION CONTROLS, MFG CLAIM	

NOTES ----------
THE SO2 EMISSION RATE IS BASED ON CLASS I AREA IMPACTS , THE TECHNOLOGY INVOLVED, & ECONIMICS. FOR THE EMISSION LIMITS THE MOS
T STRINGENT ONE APPLIES DEPENDING ON OPERATING CONDITIONS.
2637 LB/H OF SO2 IS BASED ON 0.42 LB/MMBTU INPUT AT MAXIMUM PRODUCTION RATE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1500.00 MW

COMPANY NAME/SITE LOCATION BASIN ELECTRIC POWER COOP. WHEATLAND, WY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-36
DETERMINATION MADE BY WYOMING AQD (AGENCY) ECKART HAAS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/14/76
ESTIMATED DATE OF START-UP--
(307)-777-7391 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL, 2 EA	5513.62 MMBTU/H				
		SO2	0.2000 LB/MMBTU		NSPS
				FGD, WET LIMESTONE SCRUBBER	90.00
		PM	0.1000 LB/MMBTU		NSPS
				ESP	99.50
BOILER, COAL	5513.62 MMBTU/H				
		SO2	0.2000 LB/MMBTU		NSPS
				FGD, DRY LIME SCRUBBER	90.00
		PM	0.1000 LB/MMBTU		NSPS
				ESP	99.50

NOTES ----------
UNIT 1 START UP WAS 07/01/80. UNIT 2 START UP WAS 07/01/81. UNIT 3, THE FIRST FULL-SCALE DRY SCRUBBER INSTALLED ON A LARGE STE AM GENERATOR IN THE U.S., IS PRESENTLY UNDERGOING SUBSTANTIAL MOD. TO MEET SO2 EMISSION LIMITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 880.00 MW

COMPANY NAME/SITE LOCATION BIG RIVERS ELECT.-D.B. WILSON STATION LIVERMORE, KY 42352
D.B. WILSON STATION OHIO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-80-41
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/11/81
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	4585.00 MMBTU/H EA	PM	0.0300 LB/MMBTU	ESP	BACT 99.80
		SO2	1.2000 LB/MMBTU	WET SCRUBBER	BACT 90.00
		NOX	0.6000 LB/MMBTU	BOILER DESIGN & OPERATION	BACT
COAL HANDLING	3281.00 MT/YR	PM		LIMITED OPERATING CONDITIONS	
LIMESTONE HANDLING	279000.00 T/YR	PM		LIMITED OPERATING CONDITIONS	

NOTES ----------
2 COAL FIRED 440 MW BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 246.00 MW

COMPANY NAME/SITE LOCATION BOARD OF PUBLIC UTILITIES KANSAS CITY, KS
WYANDOTTE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)

DATE OF PERMIT ISSUANCE-- 09/29/76
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, PULV.	246.00 MW				
		SO2	1.2000 LB/MMBTU	LOW S WESTERN COAL	BACT
		PM	0.1000 LB/MMBTU	ESP	NSPS
		NOX	0.7000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------
PLANT NAME: NEARMAN CREEK. THE UNIT IS SUBJECT TO NSPS, SUBPART D.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION B.F. GOODRICH HENRY, IL
MARSHALL COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 82 03 0046
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/16/82
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, FLUIDIZED BED, RECIRCUL*	150.00 MMBTU/H				
		PM	0.0600 LB/MMBTU		BACT
				CYCLONE & BAGHOUSE	99.00
		SO2	1.2000 LB/MMBTU		BACT
			85.0000 % REDUCTION		
				FLUIDIZED LIMESTONE BED	
		NOX	0.6000 LB/MMBTU		BACT
				EQUIPMENT DESIGN	
		CO	400.0000 PPM		BACT
				EQUIPMENT DESIGN	

NOTES ----------
CO EMISSION IS SUBJECT TO REVISION BASED UPON RESULTS OF TRIAL OPERATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 6507.00 MMBTU/H

COMPANY NAME/SITE LOCATION CAJUN ELECT. POWER COOP. COUSHATTA, LA
RED RIVER PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-106
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/25/80
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, LIGNITE FIRED	6507.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS 99.95
		SO2	1.0800 LB/MMBTU	LIME/LIMESTONE SCRUBBER	80.00
		NOX	0.6000 LB/MMBTU	O2 CONTROL	
		CO	0.0900 LB/MMBTU	O2 CONTROL	
COAL PILES		PM	20.7000 LB/H	COMPACTION, CRUSTING AGENT	
COAL HANDLING		PM	1.6000 LB/H	BAG FILTER	99.90
LIME/LIMESTONE HANDLING AND PIL*		PM	2.1000 LB/H	BAG FILTER	99.90

NOTES ----------
A REQUEST FOR PERMIT MODIFICATION WAS RECEIVED AND IS CURRENTLY UNDER REVIEW. BACT WILL BE CHANGED. SO2 LIMIT MAY BE EXPRESSED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

AS 0.6 LB/MMBTU, 30-DAY ROLLING AVG.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 6781.00 MMBTU/H

COMPANY NAME/SITE LOCATION CENTRAL POWER & LIGHT FANNIN, TX GOLIAD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-365
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/19/81
ESTIMATED DATE OF START-UP-- 1988
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER	6781.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		NSPS
				ELECTROSTATIC PRECIPITATOR	99.60
		SO2	0.3900 LB/MMBTU		NSPS
				FLUE GAS DESULFURIZATION	99.60
		NOX	0.5000 LB/MMBTU		NSPS
				FIRE BOX DESIGN & O2 CONTROL	
		CO	0.0600 LB/MMBTU		BACT
				O2 CONTROL OPTIMAL WITH NOX	
COAL DUMPER,ROTARY	11000.00 T/D COAL				
		PM	29.7600 LB/H		BACT
			149.8000 LB/D		
				WET SUPPRESSION	50.00
CONVEYOR TO SAMPLE HOUSE					
		PM	2.4000 LB/H		BACT
			11.7500 LB/D		
				COVERS, WET SUPPRESSION	99.00
CONVEYOR TO ACTIVE PILE					
		PM	2.2500 LB/H		BACT
			2.2500 LB/D		
				TELESCOPIC CHUTE COVERS, WET SUPPRESSION	99.00

(CONTINUED) CENTRAL POWER & LIGHT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACTIVE COAL PILE		PM	5.7800 LB/H		BACT
				COMPACTION & WET SUPPRESSION	
INACTIVE COAL PILE		PM	2.5000 LB/H		BACT
				COMPACTION	90.00
COAL CONVEYOR TO TRANSFER HOUSE		PM	2.3200 LB/H		BACT
			6.7200 LB/D		
				COVERS, WET SUPPRESSION	99.00
COAL CONVEYOR TO BOILER		PM	4.6300 LB/H		BACT
			13.4400 LB/D		
				COVERS, WET SUPPRESSION	99.00
FLYASH HANDLING		PM	0.2800 LB/H		BACT
			1.7000 LB/D		
				BAG FILTERS	99.00
				PNEUMATIC CONVEYOR TO SILO	
LIMESTONE CAR DUMP		PM	2.7000 LB/H		BACT
			24.2900 LB/WK		
				NONE	
LIMESTONE CONVEYOR TO STORAGE		PM	0.3500 LB/H		BACT
			3.1200 LB/WK		
				COVERED BAG COLLECTOR	98.00
LIMESTONE CONVEYOR TO BINS		PM	0.4000 LB/H		BACT
			3.6000 LB/WK		
				COVERED BAG COLLECTOR	98.00

(CONTINUED) CENTRAL POWER & LIGHT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE STORAGE PILE		PM	0.0480 LB/H		BACT
				NONE	
LIMESTONE RECLAIM		PM	19.9000 LB/H		BACT
			179.5200 LB/WK		
				NONE	
COAL SAMPLE HOUSE		PM	7.0000 LB/H		BACT
			34.3000 LB/D		
				WET SUPPRESSION & COVERED CONVEYORS	99.00
COAL TRANSFER HOUSE		PM	7.0000 LB/H		BACT
			34.3000 LB/D		
				COVERED CONVEYORS	99.00
				WET SUPPRESS.& COVERED CONVEY.	
LIMESTONE SILOS		PM	0.3500 LB/H		BACT
			3.1500 LB/WK		
				BAG FILTER	99.00
LIMESTONE TRANSFER HOUSE		PM	0.1900 LB/H		BACT
			1.7100 LB/WK		
				BAG FILTER	99.00
				ENCLOSED CONVEYOR	

NOTES ----------

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1200.00 MW

COMPANY NAME/SITE LOCATION CINCINATI GAS & ELECTRIC CO. - EAST BEN* , KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. O-82-072
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
UNIT #2	6313.00 MMBTU/H				
		PM	0.1000 LB/MMBTU		
			2970.0000 T/YR		
				ESP, WET SCRUBBER	99.60
		SO2	1.2000 LB/MMBTU		
			35640.0000 T/YR		
				WET SCRUBBER	81.50
		NOX	0.7000 LB/MMBTU		
			20790.0000 T/YR		
UNIT #1	6270.00 MMBTU/H				
		PM	0.1000 LB/MMBTU		
			1650.0000 T/YR		
				ESP	99.50
		SO2	0.8400 LB/MMBTU		
			13860.0000 T/YR		
				WET SCRUBBER	85.00
		NOX	0.7000 LB/MMBTU		
			11550.0000 T/YR		

NOTES ----------
PERMIT COVERS ONLY UNIT #2. UNIT #1 CONSTRUCTION PERMIT C-78-51 ON 8/25/78

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

EST. DATE OF START-UP UNIT #1 IS 01/86.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 92.50 MMBTU/H

COMPANY NAME/SITE LOCATION CITY OF WILKES-BARRE WILKES-BARRE, PA LUZERNE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 79PA23
DETERMINATION MADE BY EPA REGION III (AGENCY) DAVID ARNOLD (AGENCY CONTACT PERSON) (215)-597-7936 (PHONE)

DATE OF PERMIT ISSUANCE-- 07/01/80
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	92.50 MMBTU/H	PM	8.0000 LB/H	BAGHOUSE/CYCLONE	BACT 99.70
		SO2	199.0000 LB/H 1.5000 LB/MMBTU	S IN FUEL	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1320.00 MW

COMPANY NAME/SITE LOCATION COLORADO UTE-CRAIG UNIT #3 NEAR CRAIG, CO
MOFFAT COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/27/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RR CAR	1.87 MMT/YR	PM	1.0000 T/YR	FF	BACT 99.80
ASH SILO VENT	355.00 MT/YR	PM	149.0000 T/YR	FF	BACT 99.80
ASH UNLOAD	355.00 MT/YR	PM	34.0000 T/YR	HYDROMIXER	BACT 59.00
BOILER, 440 MW	214.00 T/H	CO		NO CONTROL	BACT
		VOC		NO CONTROL	BACT
		NOX	0.5000 LB/MMBTU	BOILER DE	BACT 65.00
		PM	0.0300 LB/MMBTU	BAGHOUSE	BACT 99.80
		SO2	0.2000 LB/MMBTU	DRY SCRUBBER	BACT 90.00

(CONTINUED) COLORADO UTE-CRAIG UNIT #3

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL PILE	1.87 MMT/YR	PM	5.0000 T/YR	SURFACTANT	BACT 85.00
CONV.	1.87 MMT/YR	PM	5.0000 T/YR	ENCLOSURES	BACT 90.00
LIME TRANS./STORAGE	37.40 MT/YR	PM	0.0000 T/YR	FF	BACT 99.80
TRANS PTS.	1.87 MMT/YR	PM	0.0000 T/YR	ENC + FF	BACT 99.80

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 137.00 MMBTU/H

COMPANY NAME/SITE LOCATION CURTISS-WRIGHT CORP. WOOD-RIDGE, NJ 07075
1 PASSAIC ST. BERGEN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 06/13/80
PERMIT NO. ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION II (AGENCY) STEVE RIVA (AGENCY CONTACT PERSON) (212)-264-8684 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PFB BOILER	137.00 MMBTU/H			
		SO2	0.3000 LB/MMBTU	SIP
			PROCESS MOD.	93.00
			CALCIUM/SULFUR, 2/1	
		PM	NONE	
			PROCESS CYCLONES	
		NOX	NONE	
		CO	NONE	

NOTES ----------
TEMPORARY SOURCE - NOT TO OPERATE IN EXCESS OF 3100 H/YR FOR A PERIOD NOT TO EXCEED TWO YEARS FROM START-UP.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION DELMARVA POWER & LIGHT VIENNA, MD 21869
DORCHESTER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 80MD01
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON) (215)-597-2711 (PHONE)

DATE OF PERMIT ISSUANCE-- 09/30/81
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	5702.00 MMBTU/H				
		SO2	0.6000 LB/MBTU		BACT
			70.0000 % EMISSION REDUCTION		
				SCRUBBER	90.00
		NOX	0.6000 LB/MBTU		BACT
			65.0000 % EMISSION REDUCTION		
				BURNER DESIGN	
		CO	0.0400 LB/MBTU		BACT
				BURNER DESIGN	
		VOC	0.0100 LB/MBTU		BACT
				BURNER DESIGN	
		VE	20.0000 % OPACITY STACK		BACT
BOILERS & STORAGE PILES	1.20 MMT/YR				
		PM	0.0300 LB/MBTU		BACT
				ESP	99.65
				DUST-SUPPRESSANT LIQUID	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 800.00 MW

COMPANY NAME/SITE LOCATION DESERET GEN & TRANS, MOON LAKE NEAR BONANZA, UT
UINTAH COUNTY

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON) (303)-837-3763 (PHONE)

DATE OF PERMIT ISSUANCE-- 02/04/80
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL CONV	475.00 T/H COAL				
		PM	1.0000 T/YR	ENC & FF	BACT 99.00
		VE	20.0000 % OPACITY		
COAL CRUSHER	2.70 MMT/YR				
		PM	1.0000 T/YR	ENC & FF	BACT 99.00
		VE	20.0000 % OPACITY		
COAL STORAGE	2.70 MMT/YR				
		PM	2.0000 T/YR	WET SUP	BACT 50.00
		VE	20.0000 % OPACITY		
LIMESTONE HAND.	55.60 MT/YR				
		PM	1.0000 T/YR	ENC & FF	BACT 90.00
		VE	20.0000 % OPACITY		
BOILERS, COAL-FIRED, 2 EA	400.00 MW				
		CO		NO CONTROL	BACT
		VOC		NO CONTROL	BACT
		NOX	0.5500 LB/MMBTU		BACT

		BOILER DESIGN	99.60
PM	0.0300	LB/MMBTU	BACT
	0.0200	GR/DSCF	
		FF	99.80
SO2	418.0000	LB/H	BACT
	0.0550	LB/MMBTU	
		WET SCRUBBER	94.00
VE	20.0000	% OPACITY	

NOTES ----------
CEM QA REQUIRED BY 40CFR, PART 60, SUBPART DA. BOILER EMISSION COMPLIANCE FOR SO2, NOX, OPACITY WILL BE DETERMINED BY CEM REPO
RTS. VE IS STATEPERMIT REQUIREMENT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 526.00 MW MOD.

COMPANY NAME/SITE LOCATION EAST KENTUCKY POWER COOP. P.O. BOX 707 MAYSVILLE, KY 40391

MASON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-76-46
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/02/76
ESTIMATED DATE OF START-UP-- 1981
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, PULV., COAL FIRED, DRY *	6760.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	HOT SIDE ESP	99.50
		PB			
		SO2	1.2000 LB/MMBTU	HOT SIDE ESP 0.72% S IN FUEL	99.50
		CO			
		NOX	0.7000 LB/MMBTU		

NOTES ----------
UNIT NUMBER 2

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 670.00 MMBTU/H

COMPANY NAME/SITE LOCATION EASTMAN KODAK CO., KODAK PARK DIV. ROCHESTER, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C262800 025 00004
DETERMINATION MADE BY NEW YORK DEC (AGENCY) FRANK SHATTUCK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/20/82
ESTIMATED DATE OF START-UP-- 1986
(716)-226-2466 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	670.00 MMBTU/H				
		PM	0.0350 LB/MMBTU		BACT
				ESP	99.57
		SO2	1.2000 LB/MMBTU		BACT
				LOW S COAL	
		NOX	0.7000 LB/MMBTU		BACT
				COMBUSTION CONTROL	
		CO	0.0450 LB/MMBTU		BACT
				COMBUSTION CONTROL	
		BE	0.0010 LB/H		BACT
				ESP	98.40
COAL CAR UNLOADER					
		PM	1.1000 LB/H		BACT
				FABRIC FILTER	99.00
CRUSHING					
		PM	0.7500 LB/H		BACT
				FABRIC FILTER	99.00
BUNKER					
		PM	0.0230 LB/H		BACT

(CONTINUED) EASTMAN KODAK CO., KODAK PARK DIV.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASH HANDLING					
		PM	0.0750 LB/H	FABRIC FILTER	BACT 99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 600.00 MW, 2 EA

COMPANY NAME/SITE LOCATION E. KENTUCKY POWER CORP.
J.K. SMITH POWER STATION
TRAPP, KY
CLARK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-80-67
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/21/80
ESTIMATED DATE OF START-UP-- 1992

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	6760.00 MMBTU/H EA				
		PM	0.0300 LB/MMBTU	ESP	BACT 99.80
		SO2	1.2000 LB/MMBTU	WET SCRUBBER	BACT 90.00
		NOX	0.6000 LB/MMBTU	BOILER DESIGN	BACT
BOILER, COAL FIRED	6760.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ESP	BACT 99.80
		SO2	1.2000 LB/MMBTU	WET SCRUBBER	BACT 90.00
		NOX	0.6000 LB/MMBTU	BOILER DESIGN	BACT

NOTES ----------
STARTUP UNIT 1, 8/92 UNIT 2, 8/93

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1220.00 BTU/H

COMPANY NAME/SITE LOCATION FLORIDA POWER CORP. CRYSTAL RIVER, FLA., FL 33733
CITRUS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. AC52-36102
DETERMINATION MADE BY FLORIDA DER (AGENCY) BOB KING (AGENCY CONTACT PERSON) (904)-488-1344 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/15/80
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLY ASH HANDLING UNITS	55000.00 LB/H	PM	4.0000 LB/H BAGHOUSE	BACT 99.90

NOTES ----------
ADDED ESP TO EXISTING BOILER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 58.00 MW

COMPANY NAME/SITE LOCATION GRAND HAVEN BOARD OF LT & PWR GRAND HAVEN, MI 49417
HARBOR ISLAND MUSKEGON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 541-79
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) GREGORY EDWARDS (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/18/80
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL-FIRED BOILER	710.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		
				ESP	99.80
		SO2	0.8400 LB/MMBTU 30D AV		
			0.8000 LB/MMBTU 24H AV		
				LIME SLURRY WET SCRUBBER	90.00
		NOX	0.6000 LB/MMBTU 30D AV		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 490.00 MW

COMPANY NAME/SITE LOCATION GRAND RIVER DAM AUTHORITY , OK 74361
MAYES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-OK-51
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED GEN STATION	490.00 MW				
		SO2	1.2000 LB/MMBTU		
			6157.2000 LB/H		
				LOW S COAL	
		PM	0.1000 LB/MMBTU		
			513.1000 LB/H		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION HOLYOKE WATER POWER CO., MT. TOM PWR PL* HOLYOKE, MA

DETERMINATION IS RACT FOR A MODIFIED SOURCE.
PERMIT NO. APPR. LTR 10-27-82
DETERMINATION MADE BY MASSACHUSETTS DEQE - AIR (AGENCY) DAVID HOWLAND (AGENCY CONTACT PERSON) (617)-727-8640 (PHONE)

DATE OF PERMIT ISSUANCE-- 10/27/82
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL COMBUSTION	1447.00 MMBTU/H			
		S	1.2100 LB/MMBTU MONTHLY AV	RACT
			1.6000 LB/MMBTU DAILY AV	
		PM	0.0800 LB/MMBTU	RACT
			ESP	99.51
		NOX		

NOTES ----------
ONE UNIT - 155 MW. VOLUNTARY COAL CONVERSION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER HOUSTON, TX

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-TX-33
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/28/77
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED STEAM ELECT. GEN	550.00 MW				
		SO2	1.2000 LB/MMBTU		
			573.0000 LB/H		
				LOW S WESTERN COAL	
		PM	0.1000 LB/MMBTU		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER THOMPSONS, TX
FORT BEND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-TX-234
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/12/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER	5729.00 MMBTU/H				
		SO2	0.3600 LB/MMBTU		NSPS
				LIMESTONE SCRUBBER	70.00
		NOX	0.5000 LB/MMBTU		NSPS
				02 CONTROLS, TANGENTIAL BURNERS	
		CO	0.0590 LB/MMBTU		
				02 CONTROLS	
		PM	0.0300 LB/MMBTU		NSPS
				FABRIC FILTER	99.72
LIMESTONE UNLOAD					
		PM	0.1000 LB/H		BACT
				WET SUPPRESION/BOTTOM DUMP	90.00
ACTIVE LIMESTONE PILE					
		PM	0.1000 LB/H		BACT
				ENCLOSED	
INACTIVE LIMESTONE PILE					
		PM	0.1000 LB/H		BACT
				ENCLOSED	

(CONTINUED) HOUSTON LIGHTING & POWER

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE CONVEYERS & TRANSFER *		PM	0.5000 LB/H	ENCLOSED	BACT 90.00
LIMESTONE CRUSHER		PM	0.1000 LB/H	BAGHOUSE	BACT 99.50
LIMESTONE FEED SILO		PM	0.1000 LB/H	BAGHOUSE	BACT 99.50
FLY ASH MIX TANK		PM	0.7000 LB/H	WILL BE A SLURRY	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 727.00 MW

COMPANY NAME/SITE LOCATION IA SOUTHERN UTILITIES (CENTERVILLE, IA.) (NEAR) CHILLICOTHE, IA
OTTUMWA STATION WAPELLO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/01/76
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, STEAM GEN, COAL FIRED		SO2	1.2000 LB/MMBTU	LOW S COAL	BACT
		PM	0.1000 LB/MMBTU	ESP	BACT

NOTES ----------
THE PERMIT WAS AMMENDED ON 03/30/78 TO ADDRESS PARTICULATE MATTER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 165.00 MMBTU/H

COMPANY NAME/SITE LOCATION IDAHO NAT ENGINEERING LAB. IDAHO FALLS, ID

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-11
DETERMINATION MADE BY EPA REGION X (AGENCY) DAVID TETTA (AGENCY CONTACT PERSON) (206)-442-1193 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/05/81
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	82.50 M EA				
		SO2	99.2000 LB/H	FLUIDIZIED BED	BACT
		NOX	0.5000 LB/MMBTU	COMBUSTION CONTROLS	BACT
		PM	0.0500 GR/DSCF	BAGHOUSE	99.00
FUGITIVE EMISSIONS					
		PM	0.0100 GR/ACF	BAGHOUSE	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 980.00 MW

COMPANY NAME/SITE LOCATION INDIANA STATEWIDE RURAL ELEC. COOP., ME* , IN
SULLIVAN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-7
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 06/28/77
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	490.00 MW				
		PM	0.1000 LB/MMBTU		NSPS
		SO2	1.2000 LB/MMBTU		NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2600.00 MW

COMPANY NAME/SITE LOCATION INDIANA & MICHIGAN ELEC. CO., ROCKPORT * ROCKPORT, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-78-A-1
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)

DATE OF PERMIT ISSUANCE-- 10/27/77
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	1300.00 MW				
		PM	0.1000 LB/MMBTU		NSPS
		SO2	1.2000 LB/MMBTU		NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1950.00 MW

COMPANY NAME/SITE LOCATION INDIANAPOLIS POWER & LIGHT CO., PATRIOT* , IN SWITZERLAND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-80-8
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/14/79
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 3 EA	650.00 MW	PM	0.0300 LB/MMBTU		
		SO2	0.5500 LB/MMBTU	SCRUBBER	91.00
		NOX	0.6000 LB/MMBTU		

NOTES ----------

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE CODE 1.1

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1640.00 MW

COMPANY NAME/SITE LOCATION INTERMOUNTAIN POWER PROJECT LYNDLE, UT

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY UTAH BAQ (AGENCY) DAVID KAPTA (AGENCY CONTACT PERSON) (801)-533-6108 (PHONE)

DATE OF PERMIT ISSUANCE-- 10/17/83
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 3	8352.00 MMBTU				
		PM	0.0200 LB/MMBTU	FABRIC FILTER	BACT 99.80
		SO2	0.0150 LB/MMBTU	LIMESTONE SCRUB	BACT 90.00
		NOX	0.5500 LB/MMBTU	COMBUSTION CONTROL	BACT
		VE	20.0000 % OPACITY	FABRIC FILTER	BACT
COAL HANDLING, UNLOADING, CRUSH*	5.00 MMT/YR				
		PM	0.0240 GR/DSCF	13 FABRIC FILTERS	BACT 99.00
		VE	20.0000 % OPACITY	13 FABRIC FILTERS	BACT
COAL, LIMESTONE, ASH HANDLING	5.00 MMT/YR				
		VE	20.0000 % OPACITY	WET SUPPRESSION	BACT 50.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 3000.00 MW

COMPANY NAME/SITE LOCATION INTERMOUNTAIN PWR PROJECT-IPP NEAR LYNNDYL, UT

MILLARD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/08/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASH UNLOAD					
		PM	64.0000 LB/H	HYDROMIXER	BACT 99.00
4 BOILERS	3000.00 MW	VE	20.0000 % OPACITY		
		CO	1248.0000 LB/H		
		VOC	375.0000 LB/H		BACT
		NOX	0.5500 LB/MMBTU		BACT
				DESIGN	BACT
		PM	0.0200 LB/MMBTU		65.00
				ESP	BACT
		SO2	0.1500 LB/MMBTU		99.80
				SCRUBBER	BACT
COAL CONV	10.00 MMT/YR	VE	20.0000 % OPACITY		90.00
		PM	17.0000 LB/H		
				ENCLOSURE	BACT
COAL CRUSHING	10.00 MMT/YR	VE	20.0000 % OPACITY		90.00
		PM	1.0000 LB/H		
				BAGHOUSE	BACT
		VE	20.0000 % OPACITY		99.80

(CONTINUED) INTERMOUNTAIN PWR PROJECT-IPP

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL STORAGE	10.00 MMT/YR				
		PM	27.0000 LB/H		BACT
				CRUSHING MGMT	90.00
		VE	20.0000 % OPACITY		
COAL UNLOAD	10.00 MMT/YR				
		PM	2.0000 LB/H		BACT
				WET SUPPRES.	98.50
		VE	20.0000 % OPACITY		
HAUL ROADS					
		PM	1.0000 LB/H		BACT
				CHEM. SUPPRES.	85.00
LIME STORAGE					
		PM	0.1000 LB/H		BACT
				BAGHOUSE	99.80
		VE	20.0000 % OPACITY		
CONV/TRANSFER	10.00 MMT/YR				
		PM	4.0000 LB/H		BACT
				BAGHOUSE	98.80
		VE	20.0000 % OPACITY		

NOTES ----------
THIS PROJECT IS UNDER CURRENT RE-REVIEW SINCE THE PROJECT HAS BEEN DOWN SIZED TO 2 UNITS VERSES THE ORIG.4. STRONGLY RECOMMEND THIS BE DELETED ANDWE WILL UPDATE THE ABOVE INFO AS SOON AS RE-EVALUATION IS COMPLETED (PROB. MAY 1983.
CEM QA REQUIRED BY 40CFR, PART 60, SUBPART DA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 650.00 MW

COMPANY NAME/SITE LOCATION IOWA ELECTRIC LIGHT & POWER CO. PANORA, IA
GUTHRIE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/29/82
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATING COAL-FIRED BOI*	400.00 T/H COAL				
		SO2	0.6000 LB/MMBTU DAILY MAX	WET LIMESTONE SCRUBBER LOW S COAL	BACT
		NOX	0.5000 LB/MMBTU 30D R AV	COMBUSTION DESIGN	BACT
		PM	0.0300 LB/MMBTU	ELECT. PRECIP.	
		VE	20.0000 % OPACITY		BACT
MATERIAL HANDLING					
		PM	0.0100 GR/DSCF	BAGHOUSES	BACT
		VE	20.0000 % OPACITY		BACT

NOTES ----------
SOURCE IS SUBJECT TO NSPS, SUBPART DA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 600.00 MW

COMPANY NAME/SITE LOCATION ICWA-ILLINOIS GAS & ELECT.
LOUISA STATION , IA
LOUISA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/16/81
ESTIMATED DATE OF START-UP-- 1983
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	7000.00 MMBTU/H				
		NOX	0.6000 LB/MMBTU	BOILER DESIGN	BACT
		PM	0.0300 LB/MMBTU	ESP	BACT
		SO2	0.8600 LB/MMBTU 24H AV		BACT
			1.0500 LB/MMBTU 3H AV	LOW S COAL	

NOTES ----------
PERMIT ORIGINALLY ISSUED 07/07/79.

53600.0 LB/DAY TOTAL ALLOWED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 600.00 MW

COMPANY NAME/SITE LOCATION JACKSONVILLE ELECT. AUTHORITY JACKSONVILLE, FL 32208
NORTHSIDE DUVAL COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-FL-010
DETERMINATION MADE BY FLORIDA DER (AGENCY) BOB KING (AGENCY CONTACT PERSON) (904)-488-1344 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/01/82
ESTIMATED DATE OF START-UP-- 1986

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GEN. UNIT	600.00 MW EA				
		SO2	0.7600 LB/MMBTU		BACT
				LIME/LIMESTONE FGD	90.00
		PM	0.0300 LB/MMBTU		NSPS
				ESP	99.78
		NOX	0.6000 LB/MMBTU		NSPS
				BOILER DESIGN	

NOTES ----------
TWO UNITS AT 600.0 MW EACH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 630.00 MW

COMPANY NAME/SITE LOCATION KANSAS CITY POWER & LIGHT
IATAN STATION
IATAN, MO
PLATTE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01//07/77
ESTIMATED DATE OF START-UP-- 1981
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, PULV.	630.00 MW				
		PM	0.1000 LB/MMBTU	ESP	BACT 99.40
		SO2	1.2000 LB/MMBTU	LOW S WESTERN COAL	BACT
		NOX	0.7000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------
THE UNIT IS SUBJECT TO NSPS, SBPART D. THE PSD REGS. ADDRESSED ONLY PM AND SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2880.00 MW (TOTAL, 4 UNIT C*

COMPANY NAME/SITE LOCATION KANSAS POWER & LIGHT CO. ST. MARY'S, KS
JEFFREY ENERGY CENTER POTTAWATOMIE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILERS, UNITS 3 AND*	720.00 MW EA				
		SO2	1.2000 LB/MMBTU		BACT
				WET LIMESTONE SPRAY TOWERS	60.00
		PM	0.1000 LB/MMBTU		BACT
				2 COLD SIDE ESP'S PER UNIT	99.20
		NOX	0.7000 LB/MMBTU		NSPS
				BOILER DESIGN	

NOTES ----------
THE UNITS ARE SUBJECT TO NSPS, SUBPART D. BACT EMISSION LIMITS FOR NOX AND CO WERE NOT SET BECAUSE THE REGS. ADDRESSED ONLY PM AND SO2. PLANT NAME: JEFFREY ENERGY CENTER.
UNITS 1 AND 2 WERE NOT SUBJECT TO PSD REVIEW. UNIT 3 STARTUP 1982. UNIT 4 STARTUP 1984.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1300.00 MW

COMPANY NAME/SITE LOCATION KENTUCKY POWER - CARR'S FAC.
LEWIS COUNTY POWER PLANT
ASHAD, KY
LEWIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-80-42
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/18/80
ESTIMATED DATE OF START-UP-- 1989
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER BOILER	11943.00 MMBTU/H EA				
		SO2	0.6000 LB/MMBTU	FGD	BACT 95.00
		PM	0.0300 LB/MMBTU	ESP	BACT 99.81
		NOX	0.6000 LB/MMBTU	BOILER DESIGN & OPERATION	BACT

NOTES ----------
TWO UNIT COAL BURNING POWER PLANT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1300.00 MW

COMPANY NAME/SITE LOCATION KENTUCKY UTILITIES - HANCOCK POWER PLANT LEXINGTON, KY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-82-123
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)

DATE OF PERMIT ISSUANCE-- 04/15/82
ESTIMATED DATE OF START-UP-- 1990

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
UNIT #1	6650.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		
			874.0000 T/YR		
				ESP	99.80
		CO	1397.0000 T/YR		
		SO2	1.2000 LB/MMBTU		
			15768.0000 T/YR		
				WET SCRUBBER	91.80
		NOX	0.6000 LB/MMBTU		
			17476.0000 T/YR		
UNIT #2	6650.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		
			874.0000 T/YR		
				ESP	99.80
		CO	1397.0000 T/YR		
		SO2	1.2000 LB/MMBTU		
			15768.0000 T/YR		
				WET SCRUBBER	91.80
		NOX	0.6000 LB/MMBTU		
			17476.0000 T/YR		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION LOUISVILLE GAS & ELECT. - TRIMBLE CNTY * WISES LANDING, KY
TRIMBLE COUNTY

DETERMINATION IS
PERMIT NO. C-78-34
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/27/78
ESTIMATED DATE OF START-UP-- 1986

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INDIRECT HEAT EXCHANGER	4851.00 MMBTU/H				
		PM	0.1000 LB/MMBTU		
			1275.0000 T/YR		
				ESP	99.60
		SO2	1.2000 LB/MMBTU		
			10790.0000 T/YR		
				WET SCRUBBER	90.00
		NOX	0.7000 LB/MMBTU		
			8924.0000 T/YR		

NOTES ----------
UNIT NUMBER 1

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION LOUISVILLE GAS & ELECT. - WISE'S LANDIN* , KY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-79-53
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/01/79
ESTIMATED DATE OF START-UP-- 1988

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INDIRECT HEAT EXCHANGER	4851.00 MMBTU/H	PM	0.1000 LB/MMBTU 1275.0000 T/YR	ESP	99.60
		SO2	1.2000 LB/MMBTU 10790.0000 T/YR	WET SCRUBBER	90.00
		NOX	0.7000 LB/MMBTU 8924.0000 T/YR		

NOTES ----------
UNIT NUMBER 2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 4735.00 MMBTU/H

COMPANY NAME/SITE LOCATION LOWER COLORADO RIVER AUTHORITY , TX
FAYETTE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9231-34
DETERMINATION MADE BY TEXAS ACB (AGENCY) JIM CROCKER (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/22/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, LIGNITE FIRED	4735.00 MMBTU/H				
		H2S*	954.7000 T/YR		BACT
		PM	622.0000 T/YR		B/N
				ESP	99.96
		HG	0.1300 T/YR		BACT
		VOC	168.2000 T/YR		BACT
		NOX	12350.2000 T/YR		B/N
				BURNER DESIGN	
		SO2	20736.9000 T/YR		B/N
				LIMESTONE SCRUBBER	90.00
		CO	2627.7000 T/YR		BACT
COAL HANDLING, CONVEYING SYS.	1200.00 T/H				
		PM	53.8000 T/YR		BACT
				COVERS & WETTING AGENTS	
COAL HANDLING, STORAGE	1800.00 T/H				
		PM	32.9000 T/YR		BACT
				BAGHOUSE	99.00
				WET SPRAY	
ASH HANDLING	300.00 T/H				
		PM	4.7000 T/YR		BACT
				BAGHOUSE	99.00
				WET UNLD MIXERS	

(CONTINUED) LOWER COLORADO RIVER AUTHORITY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE HANDLING	300.00 T/H				
		PM	0.7000 T/YR	ENCLOSURE	BACT

NOTES ----------
ALT. EMISSION LIMITS ON BOILER ARE -- 0.6 LB/MMBTU NOX, 0.03 LB/MMBTU PM, 1.0 LB/MMBTU SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 517.60 MMBTU/H

COMPANY NAME/SITE LOCATION MARQUETTE BOARD OF LT & PWR
SHIRAS GENERATING STA.
MARQUETTE, MI 49855
MARQUETTE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 65-80
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) DAVID FERRIER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/01/80
ESTIMATED DATE OF START-UP-- 1982
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL-FIRED	517.60 MMBTU/H				
		PM	0.0300 LB/MMBTU	BAGHOUSE	99.90
		SO2	0.4000 LB/MMBTU	SPRAY LIME FGD UNIT LOW SULFUR WESTERN COAL	70.00
		NOX	0.5000 LB/MMBTU	LONG. FIRING + EXCESS AIR CON.	
COAL & ASH HANDLING & STORAGE					
		PM	0.0300 GR/DSCF	BAG FILTER CONTROL ENCLOSURES, DUST SUPPRESSANTS	99.90

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500000.00 LB/H

COMPANY NAME/SITE LOCATION MICHIGAN SOUTH CENTRAL POWER AGENCY LITCHFIELD, MI 49242
HILLSDALE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 607-78
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) GREGORY EDWARDS (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/16/80
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL-FIRED BOILER	500000.00 LB/H				
		PM	0.0300 LB/MMBTU	ESP	99.70
		SO2			NSPS
				LIMESTONE SPRAY SCRUB	90.00
		NOX	0.6000 LB/MMBTU	CONTRL EXCESS & OVERFIRE AIR	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION MINN. POWER & LIGHT CO., CLAY-BOSWELL COHASSET, MN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-6
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/16/77
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	500.00 MW			
		PM	0.1000 LB/MMBTU	NSPS
		SO2	1.2000 LB/MMBTU	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 98.30 MMBTU/H

COMPANY NAME/SITE LOCATION MORGANTOWN ENERGY RESEARCH CENTER MORGANTOWN, WV
MORGANTOWN ENERGY RESEARCH CE* MONONGALIA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78WV08
DETERMINATION MADE BY EPA REGION III (AGENCY) EILEEN GLEN (AGENCY CONTACT PERSON) (215)-597-8187 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/20/79
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLUIDIZED BED BOILER	98.30 MMBTU/H				
		PM	5.4000 LB/H		BACT
				CENTRIF. COLL. & FABRIC FILTER	99.00
		SO2	86.0000 LB/H		BACT
		NOX	34.0000 LB/H		BACT
COAL/LIMESTONE DRYER	52.00 CF/H				
				FABRIC FILTER	99.00
COAL/LIMESTONE DRYER	13230.00 T COAL				
COAL/LIMESTONE DRYER	6600.00 T LIMESTONE				
COAL/LIMESTONE UNLOAD	20000.00 T COAL LIME*				
				FABRIC FILTER	99.90
COAL/LIMESTONE CONVEYORS	20000.00 T COAL LIME*				
				FABRIC FILTER	99.90

NOTES ----------
PROJECT CANCELLED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 166.00 MW (GROSS)

COMPANY NAME/SITE LOCATION MUSCATINE POWER & WATER MUSCATINE, IA
MUSCATINE COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/24/80
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, UNIT #9, COAL/OIL/GAS	166.00 MW				
		PM	0.0300 LB/MMBTU		LAER
				COLDSIDE ESP	99.70
		SO2	0.4500 LB/MMBTU 30D R AV		LAER
			0.5600 LB/MMBTU MAX D AV		
				WET-LIMESTONE SCRUBBER	92.00
		NOX	0.6000 LB/MMBTU		BACT
				BOILER DESIGN	
COAL HANDLING					
		PM	0.0100 GR/SCF		LAER
				BAGHOUSE	99.99
ASH HANDLING					
		PM	0.0200 GR/SCF		LAER
				BAGHOUSE	99.98

NOTES ----------
LAER'S ESTABLISHED BY THE IOWA DEPT. OF ENVIRONMENTAL QUALITY, CONTACT - AFTER 7/1/83, THE IOWA DEPT. OF WATER, AIR, & WASTE M
ANAGEMENT, 515-281-8924. UNIT 9 WILL BURN SOUTHERN ILL. COAL. SO2 & PM OFFSETS WILL BE OBTAINED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 650.00 MW

COMPANY NAME/SITE LOCATION NE PUBLIC POWER DIST./GENTLEMAN #2 SUTHERLAND, NE
GERALD GENTLEMAN STATION (UNI* LINCOLN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/09/77
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, STEAM GEN, COAL FIRED	650.00 MW				
		SO2	1.2000 LB/MMBTU	LOW S COAL	BACT
		PM	0.1000 LB/MMBTU	ESP	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 650.00 MW

COMPANY NAME/SITE LOCATION NEBRASKA PUBLIC POWER DIST. COMSTOCK STATION , NE

DETERMINATION IS BACT
PERMIT NO.
DETERMINATION MADE BY NEBRASKA DEC (AGENCY) GENE ROBINSON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/16/80
ESTIMATED DATE OF START-UP--
(402)-471-2186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	650.00 MW				
		PM	0.0300 LB/MMBTU	FABRIC FILTER	99.90
		SO2	70.0000 % REMOVAL		
			0.3800 LB/MMBTU 30D AV	DRY SCRUBBER	70.00
		NOX	0.5000 LB/MMBTU 30D AV		
		CO	50.0000 PPM		
COAL HANDLING					
		PM	20.0000 % OPACITY	FABRIC FILTER	99.90

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 560.00 MW EA

COMPANY NAME/SITE LOCATION NEVADA POWER CO.
25 MILES NE OF LAS VEGAS , NV

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NV-77-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) LARRY BOWERMAN (AGENCY CONTACT PERSON) (415)-974-8213 (PHONE)

DATE OF PERMIT ISSUANCE-- 04/13/81
ESTIMATED DATE OF START-UP-- 1990

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 4 EA	560.00 MW				
		CO	320.0000 LB/H		BACT
			50.0000 PPM AT 20% EXCESS AIR		
				PROPER BOILER DESIGN	
				EXCESS AIR MONITORING	
		NOX	2498.0000 LB/H		BACT
			0.4400 LB/MMBTU		
				PROPER BOILER DESIGN W/ COMBUSTION AND LOW NOX*	
		SO2	566.0000 LB/H		BACT
			0.1000 LB/MMBTU		
				ONE (1) WET LIME SCRUBBER	95.00
				TWO (2) STANDBY MODULES TO IMPROVE SYSTEM RELI*	
		PM	0.0150 LB/MMBTU		BACT
			10.0000 % OPACITY		
				BAGHOUSE, UNLESS ESP DESIGN APPROVED	99.76
		VOC			
				PROPER BOILER DESIGN	
				COMBUSTION MONITORS	
		PB			BACT
		BE		NONE	
				SAME AS LEAD	
		HG		NONE	

		FM AND SO2 CONTROLS EQUIPMENT
		MONITOR HG CONTENT IN COAL
F	9.0000	LB/H
		SAME AS MERCURY
H2S*	13.0000	LB/H
		SAME AS MERCURY W/O COAL MONITORING

(CONTINUED) NEVADA POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILERS, 4	31250.00 T/D				
		PM	11.4000 T/YR	VENTURIES TO WET SCRUBBER OR BAGHOUSE	99.00
				ENCLOSURE AND WETTING TRANSFER POINTS	
ACTIVE COAL STORAGE SILOS					
		PM		TRACE	
				BAGHOUSE ON SILO VENTS	95.00
COAL DEWATERING PLANT					
		CO	26.0000 LB/H		
			50.0000 PPM		
				SAME AS FOR BOILERS	
		NOX	204.0000 LB/H		
			0.4400 LB/MMBTU		
				SAME AS FOR BOILERS	
		SO2	46.0000 LB/H		
			0.1100 LB/MMBTU		
				SAME AS FOR BOILERS	
		BE		NONE	
				SAME AS FOR BOILERS	
		HG		NONE	
				SAME AS FOR BOILERS	
		F	1.0000 LB/H		
			2.0000 LB/H		
				SAME AS FOR BOILERS	
		H2S*	1.0000 LB/H		
			2.0000 LB/H		
				SAME AS FOR BOILERS	
INACTIVE COAL STORAGE PILE					
				COMPACTION & CHEMICAL STABILIZATION W/BINDING *	90.00
LIME CONVEYING, TRANSFER, STORA*					
				BAGHOUSES ON LIME SILO AND SLAKER VENTS.	
				PNEUMATIC UNLOADING, ENCLOSED CONVEYORS	

(CONTINUED) NEVADA POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASH HANDLING,STOR. & DISPOSAL			SILO VENTED TO BAGHOUSE. FLY ASH PNEUMATICALLY CONVEYED TO SILO.	
PLANT ACCESS & HAUL ROADS		FUG*	MOST ROADS PAVED AND 20 MPH SPEED LIMIT	
FUEL OIL STORAGE	3.10 MMGAL	VOC	FIXED OR FLOATING ROOT	

NOTES ----------
(250) LB/HR LIMITS APPLY TO ANY CONSECUTIVE 24-HOUR PERIOD, ALL OTHER ARE FORCONSECUTIVE 30-DAY PERIOD AS DETERMINED BY CONTIN UOUS MONITORING SYS. OPACIT Y LIMIT (6 MINUTE AVERAGE) CANNOT BE EXCEEDED
EXCEPT FOR ONE 6-MINUTE PERIOD PER HOUR OF NOT MORE THAN 15% OPACITY AS DETERMINED BY METHOD 9 OR THE OPACITY MONITORING SYS.
BACT FOR PM REPRESENTS BACT FOR LEAD. TRACE EQUALS LESS THAN 0.1 T/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1080.00 MW

COMPANY NAME/SITE LOCATION NEW ENGLAND POWER CO., BRAYTON POINT ST* SOMERSET, MA

DETERMINATION IS RACT FOR A MODIFIED SOURCE.
PERMIT NO. APPR. LTR 10-01-80
DETERMINATION MADE BY MASSACHUSETTS DEQE - AIR (AGENCY) VAUGHAN STEEVES (AGENCY CONTACT PERSON) (617)-727-1440 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/01/80
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL COMBUSTION	10625.00 MMBTU/H				
		S	1.2100 LB/MMBTU MONTHLY AV		RACT
			2.3100 LB/MMBTU DAILY AV		
		PM	0.0800 LB/MMBTU		RACT
				ESP	99.30
		NOX			

NOTES ----------
PM TESTED AT 0.034 LB/MMBTU, 0.016 LB/MMBTU, & 0.010 LB/MMBTU FOR UNITS 1 - 3, RESPECTIVELY. THREE UNITS COMBINED - 250 MW, 25
0 MW, & 580 MW. VOLUNTARY COAL CONVERSION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 7934.00 MMBTU/H

COMPANY NAME/SITE LOCATION NORTHERN INDIANA PUBLIC SERVICE CO. WHEATFIELD, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-80-18
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/31/80
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, COAL-FIRED, 2 EA	3967.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ESP	99.73
		SO2	0.6200 LB/MMBTU	SCRUBBER	90.00
		NOX	0.6000 LB/MMBTU		
FUGITIVE EMISSIONS, CRUSHER HOU*		PM		BAGHOUSE	99.00
FUGITIVE EMISSIONS, CONVEYORS		PM		ENCLOSED COAL CONVEYORS	
FUGITIVE EMISSIONS, FLYASH & HA*		PM		BAGHOUSE WETTED COAL	

NOTES ----------
TWO BOILERS UNDER PERMIT. TRUCKS UTILIZIED FOR ASH DISPOSAL SHALL BE COVERED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1600.00 MW

COMPANY NAME/SITE LOCATION NORTHERN STATE POWER CO., SHERBURNE STA BECKER, MN
SHERBURNE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-2
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/25/77
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	800.00 MW				
		PM	0.1000 LB/MMBTU		NSPS
		SO2	1.2000 LB/MMBTU		NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL

COMPANY NAME/SITE LOCATION NSPS COAL/WATER MIXTURE DEMO PROJECT SOUTHPOINT, OH LAWRENCE COUNTY

DETERMINATION IS
PERMIT NO. 07-107
DETERMINATION MADE BY PORTSMOUTH (AGENCY) FRANK PHILLIPS (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP-- 1984
(614)-353-5153 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
P001	2.80 MMBTU				
		PM	0.0310	GR/DSCF	NSPS
				FABRIC FILTER	99.99
		VE	20.0000	% OPACITY	NSPS
P002	2.80 MMBTU				
		PM	0.0310	GR/DSCF	NSPS
				FABRIC FILTER	99.99
		VE	20.0000	% OPACITY	NSPS
P003	2.80 MMBTU				
		PM	0.0310	GR/DSCF	NSPS
				FABRIC FILTER	99.99
		VE	20.0000	% OPACITY	NSPS

NOTES ----------
EXCEPT FOR COAL RECEIVING AND TRANSFER TO PULVERIZER ALL OF PROCESS IS ENCLOSED BY PIPES, TANKS, ETC. IN MOST OF PROCESS COAL IS MIXED WITH WATER. BAGHOUSES SEPERATE TRANSFER AIR FROM PRODUCT - APPROX. 90% OF TRANSFER AIR FROM BAGHOUSE WILL BE RECIRCULATED. ALSO PERMIT NUMBER 07-44-00-0094.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 635.00 MW

COMPANY NAME/SITE LOCATION NY STATE ELECT. & GAS - CYUGA STATION SOMERSET, NY

NIAGARA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) BARRY TORNICK (AGENCY CONTACT PERSON) (212)-264-9579 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/29/81
ESTIMATED DATE OF START-UP-- 1986

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MAIN BOILER	1750.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ESP	BACT
		SO2	0.7000 LB/MMBTU		BACT
			0.6000 LB/MMBTU	FGD & S<3.6% BY WT.	90.00
		NOX	0.6000 LB/MMBTU	GOOD DESIGN & COMBST PRACT.	BACT
		CO		GOOD COMBST PRACT.	BACT
		F		FGD SYSTEM	BACT
		PB		ESP/FGD	BACT
		HG		ESP/FGD	BACT
		BE		ESP/FGD	BACT
AUXILIARY BOILERS, 2	195.00 MMBTU/H				
		SO2		USE OF #2 FUEL OIL	BACT
		NOX			BACT

USE OF #2 FUEL OIL

(CONTINUED) NY STATE ELECT. & GAS - CYUGA STATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL HANDLING	200000.00 T/YR	PM	FABRIC FILTER H2O SPRAY & ENCLOSED SYS.	BACT
LIMESTONE HANDLING		PM	FABRIC FILTER H2O SPRAY & ENCLOSED SYS.	BACT
FLYASH HANDLING		PM	FABRIC FILTER	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION OKLAHOMA GAS & ELECT. CO. BEDROCK, OK NOBLE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-218
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/05/81
ESTIMATED DATE OF START-UP-- 1986
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GEN. UNITS, COAL-FIRED, 2 EA	5250.00 MMBTU/H				
		SO2	0.4600 LB/MMBTU	FLUE GAS DESULFURIZATION	NSPS 70.00
		NOX	0.5000 LB/MMBTU	EXCESS AIR	NSPS
		CO	0.0640 LB/MMBTU	COM. CONTROLS & PROPER OPER.	BACT
		PM	0.0300 LB/MMBTU	ESP OR BAGHOUSE	NSPS 99.60
TUNNELS, COAL RECLAM., 2 EA		PM	2.8000 LB/H	DUST COLLECTOR	BACT 98.00
COAL CRUSHER TOWER		PM	3.4000 LB/H	DUST COLLECTOR	BACT 98.00
BIN TOWERS, COAL SURGE, 2 EA		PM	3.9000 LB/H	DUST COLLECTOR	BACT 98.00

(CONTINUED) OKLAHOMA GAS & ELECT. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL SILOS, 2 EA		PM	3.7000 LB/H	DUST COLLECTOR	BACT 98.00
COAL STORAGE PILES	80.00 LB/ACRE-H	PM	5.8000 LB/ACRE	CHEMICAL & WATER STABILIZERS	BACT

NOTES ----------
OKLAHOMA GAS & ELECTRIC COMPANY, UNIT #3.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 550.00 MW

COMPANY NAME/SITE LOCATION OKLAHOMA GAS & ELECT. CO. MUSKOGEE, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-OK-57
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED BOILER	550.00 MW	SO2	1.2000 LB/MMBTU 6180.0000 LB/H	LOW S WESTERN COAL	
		PM	0.1000 LB/MMBTU 212.0000 LB/H		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION PACIFIC POWER & LIGHT POINT OF ROCKS, WY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-23
DETERMINATION MADE BY WYOMING AQD (AGENCY) LEE GRIBOVICZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/01/75
ESTIMATED DATE OF START-UP-- 1979
(307)-332-3144 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL	5020.00 MMBTU/H				
		SO2	0.2000 LB/MMBTU 2H AV	FGD, WET SODIUM SCRUBBER	BACT
		PM	0.1000 LB/MMBTU	ESP	BACT 99.30
		NOX	0.7000 LB/MMBTU	DESIGN	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 37.00 MW

COMPANY NAME/SITE LOCATION PANORAMA ENERCORP, INC KETTLE FALLS, WA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-15
DETERMINATION MADE BY EPA REGION X (AGENCY)
PAUL BOYS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/22/81
ESTIMATED DATE OF START-UP--
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	37.00 MW				
		PM	0.0070 GR/DSCF 12% CO2	ESP	99.00
		CO	107.3000 LB/H		BACT
		VOC	36.5000 LB/H		
		NOX	0.1700 LB/MMBTU		BACT

NOTES ----------
GENERAL DESIGN CONTRIBUTES TO REDUCTION OF ALL POLLUTANTS AND INCLUDES 1) INCREASED BOILER HEIGHT FOR BETTER EFFICIENCY, 2) OVERFIRE AND UNDERFIRE AIR, 3) FEEDWATER HEATERS TO INCREASE EFFICIENCY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 625.00 MW ONE

COMPANY NAME/SITE LOCATION PENNSYLVANIA ELECT. CO. LAKE CITY, PA
COHO-1 ERIE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78PA13
DETERMINATION MADE BY EPA REGION III (AGENCY) DAVID ARNOLD (AGENCY CONTACT PERSON) (215)-597-7936 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/18/81
ESTIMATED DATE OF START-UP-- 1989

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
UTILITY BOILER, COAL FIRED	6280.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		NSPS
				ESP	99.70
		SO2	0.6260 LB/MMBTU		BACT
				LIME SCRUBBING-77%	99.00
		NOX	0.6000 LB/MMBTU		NSPS
		CO	0.0400 LB/MMBTU		NSPS
COAL AND ASH HANDLING					
		PM			BACT
				WET SUPPRESSION AND DUST COLLECTORS	

NOTES ----------
UP TO 40% SULFUR TO BE REMOVED BY COAL CLEANING PRIOR TO REACHING BOILER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2471.00 MMBTU/H

COMPANY NAME/SITE LOCATION PLAINS ELECT. GEN & TRANS PREWITT, NM MCKINLEY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-82
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/27/81
ESTIMATED DATE OF START-UP-- 1983
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATOR, COAL-FIRED	2471.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		NSPS
				BAGHOUSE	99.90
		SO2	0.2000 LB/MMBTU		BACT
				FLUE GAS DESULFURIZATION	90.00
		CO	0.0630 LB/MMBTU		BACT
				FIRE BOX DESIGN & COM. CONTROL	
		NOX	0.4500 LB/MMBTU		BACT
				FIRE BOX DESIGN & COM. CONTROL	
		F	0.0010 LB/MMBTU		BACT
COAL HANDLING		PM			
STOCKPILING AND STORAGE		PM			
LIMESTONE HANDLING		PM			
FUGITIVE EMISSIONS		PM			

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 250.00 MW

COMPANY NAME/SITE LOCATION PLATTE RIVER PWR-RAWHIDE NEAR FORT COLLINS, CO

LARIMER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/22/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	250.00 MW				
		NOX	0.5000 LB/MMBTU	DESIGN	BACT 65.00
		PM	0.0300 LB/MMBTU	BAGHOUSE	BACT 99.70
		SO2	0.1300 LB/MMBTU	DRY SCRUBBER	BACT 80.00
COAL CONV	870.00 MT/YR				
		PM	0.5300 LB/H	BAGHOUSE	BACT 99.70
COAL CRUSHING	870.00 MT/YR				
		PM	0.4000 LB/H	BAGHOUSE	BACT 99.70
COAL STORAGE	870.00 MT/YR				
		PM	40.4000 LB/H	CRUSHING AGENT	BACT 80.00
COAL UNLOAD	870.00 MT/YR				
		PM	1.0500 LB/H	BAGHOUSE	BACT 99.70

(CONTINUED) PLATTE RIVER PWR-RAWHIDE

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIME STORAGE	5.60 MT/YR	PM	0.0400 LB/H	BAGHOUSE	BACT 99.60
SILO(ASH)	57.70 MT/YR	PM	0.0100 LB/H	BAGHOUSE	BACT 99.70

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 350.00 MW

COMPANY NAME/SITE LOCATION SALT RIVER PROJECT CORONADO STATION UNI* ST. JOHNS, AZ

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) AZP76-1
DETERMINATION MADE BY EPA REGION IX (AGENCY) JIM HANSON (AGENCY CONTACT PERSON) (415)-974-8038 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/10/78
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GEN. UNIT	350.00 MW				
		PM	0.0820 LB/MMBTU	ESP	
		SO2	0.8000 LB/MMBTU	WET LIMESTONE SCRUBBER	64.00
		NOX	0.7000 LB/MMBTU		NSPS

NOTES ----------
COAL CONVEYING SYS WILL BE ENCLOSED AND DUST SUPPRESENT ADDED AT TRANSFER POINTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 890.00 MW

COMPANY NAME/SITE LOCATION SANDOW STEAM ELECT. STATION ROCKDALE, TX MILAM COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-28
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/20/77
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS		CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, LIGNITE FIRED	890.00 MW					
		SO2	1.2000	LB/MMBTU		
			6827.0000	LB/H		
					FGD	
		PM	0.1000	LB/MMBTU		70.00
					ESP	99.80

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER TX-0007

SOURCE TYPE CODE 1.1

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 530.50 MW

COMPANY NAME/SITE LOCATION SIERRA PACIFIC POWER CO. VALMY, NV

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) NV 77-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON) (415)-974-8066 (PHONE)

DATE OF PERMIT ISSUANCE-- 04/04/78
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, COAL FIRED, 2	277.00 MW				
		SO2	1.2000 LB/MMBTU		
		NOX	0.7000 LB/MMBTU		
		PM	0.1000 LB/MMBTU		
				BAGHOUSE	99.75

NOTES ----------
EMISSION LIMITS APPLY TO EACH UNIT SEPERATELY. BASIS DETERMINED BY NAPS AND PSD CLASS II INCREMENT CONSIDERATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 235.00 MW

COMPANY NAME/SITE LOCATION SIKESTON BOARD OF MUNICIPAL UTILITIES SIKESTON, MO
SCOTT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/14/77
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, STEAM GEN, COAL FIRED	235.00 MW				
		SO2	1.2000 LB/MMBTU	WET LIMESTONE SCRUBBER	BACT
		PM	0.1000 LB/MMBTU	ESP	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 567.00 MW, 2 EA

COMPANY NAME/SITE LOCATION SOUTHWESTERN PUBLIC SERVICE SUDAN, TX LAMB COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-50
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM TURBINE, COAL-FIRED	567.00 MW				
		SO2	508.8000 LB/H		
			1.2000 LB/MMBTU		
				LOW SULFUR FUEL	
		PM	0.1000 LB/MMBTU		
				FABRIC FILTER	98.60
				SPRINKLE ROADS WITH WATER OR CHEM.	

NOTES ----------
TWO UNITS, 567 MW EACH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 348.00 MW (GROSS)

COMPANY NAME/SITE LOCATION SUNFLOWER ELECT. COOP., INC. - HAYS, KS. NEAR HOLCOMB, KA, KS
HOLCOMB STATION
FINNEY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/19/80
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL-FIRED	3389.00 MMBTU/H				
		NOX	0.6000 LB/MMBTU	STAGED COMBUST., LEA	BACT
		SO2	0.4800 LB/MMBTU 30D R AV	LIME BASED DRY SCRUBBER	BACT 80.00
		CO	0.0640 LB/MMBTU 30D R AV	LIME BASED DRY SCRUBBER	BACT
		PM	0.0300 LB/MMBTU	FABRIC FILTER	BACT

NOTES ----------
THE NOX LIMIT TAKES PRIORITY OVER THE CO LIMIT. IF NECESSARY THE CO LIMIT WILL BE ADJUSTED AFTER THE UNIT HAS BEEN PERFORMANCE TESTED. THE UNIT WILL BURN LOW S WYOMING COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1440.00 MW

COMPANY NAME/SITE LOCATION SW ELECT. POWER CANTON, TX
VAN ZANDT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-130
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 02/23/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2 EA	6821.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS 99.80
		SO2	0.9000 LB/MMBTU	WET LIMESTONE FLUE GAS DESULFURIZATION	BACT 87.40
		NOX	0.6000 LB/MMBTU	LOW NOX BURNERS FLUE GAS RECIRCULATION	NSPS
		CO	0.1000 LB/MMBTU	LOW EXCESS AIR	BACT
COAL UNLOAD		PM	2.4000 LB/H	WET SUPPRESSION	
COAL TRANSFER		PM	2.4000 LB/H	ENCLOSED	
COAL STORAGE		PM	2.4000 LB/H	CHEMICAL STABILIZER	

(CONTINUED) SW ELECT. POWER

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE UNLOAD		PM	0.2000 LB/H	WET SUPPRESSION	
LIMESTONE TRANSFER		PM	0.6000 LB/H	ENCLOSED	
LIMESTONE STORAGE		PM	0.2000 LB/H	CHEMICAL STABILIZER	

NOTES ----------
NOX LIMIT FOR BOILERS IS 30 DAY ROLLING AVERAGE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 720.00 MW EA

COMPANY NAME/SITE LOCATION SW ELECT. POWER NABORTION, LA 71156
P.O. BOX 21106 DESOTO PARISH PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 09/01/8?
PERMIT NO. (REGION FILE NO.) PSD-LA-117 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI JOHN BUNYAK (214)-767-1594
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	720.00 MW				
		SO2	1.2000 LB/MMBTU		NSPS
				FGD	76.00
		NOX	0.6000 LB/MMBTU		NSPS
				LOW NOX BURNERS	
		PM	0.1000 LB/MMBTU		BACT
				ESP	99.80
		CO	0.8000 LB/MMBTU		BACT
				EFFICIENT COMBUSTION	
BOILER, COAL FIRED	720.00 MW				
		SO2	0.6000 LB/MMBTU		NSPS
				FGD	89.50
		NOX	0.6000 LB/MMBTU		NSPS
				LOW NOX BURNERS	
		PM	0.0300 LB/MMBTU		BACT
				ESP	99.80
		CO	0.8000 LB/MMBTU		BACT
				EFFICIENT OPERATION	
COAL HANDLING					
		PM			
				SPRAY APPL. & DUST COLLECT.	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

NOTES ----------
UNIT 1 UNDER 40CFR PART 60 SUBPART D. UNIT 2 UNDER 40CFR PART 60 SUBPART DA. FUGITIVE DUST CONTROLLED BY WATER SPRAY DURING CO
NSTRUCTION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 720.00 MW, 2 EA

COMPANY NAME/SITE LOCATION SW ELECT. POWER, 2700 ONE MAIN PL. DALLAS, TX 75250

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED UNIT #1	6780.00 MMBTU/H				
		PM	203.0000 LB/H		
			0.0300 LB/MMBTU		
				ESP	99.90
		SO2	0.7200 LB/MMBTU		
			4882.0000 LB/H		
				DESULFURIZATION SYS.	90.00
		NOX	0.6000 LB/MMBTU		
			4068.0000 LB/H		
				BURNER DESIGN	
		CO	0.1300 LB/MMBTU		
			892.0000 LB/H		
				BURNER DESIGN	
BOILER, COAL FIRED UNIT #2	6780.00 MMBTU/H				
		PM	203.0000 LB/H		
			0.0300 LB/MMBTU		
				ESP	99.90
		SO2	0.7200 LB/MMBTU		
			4882.0000 LB/H		
				DESULFURIZATION SYS.	90.00
		NOX	0.6000 LB/MMBTU		
			4068.0000 LB/H		

			BURNER DESIGN
CO		0.1300	LB/MMBTU
		892.0000	LB/H
			BURNER DESIGN

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 720.00 MW

COMPANY NAME/SITE LOCATION SW ELECT. POWER HALLSVILLE, TX

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-64
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS		CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED STEAM GEN	720.00 MW					
		SO2	1.2000	LB/MMBTU		
			682.0000	LB/H		
					WET LIMESTONE FGD	76.00
		PM	0.1000	LB/MMBTU		
					ESP	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 500.00 MW

COMPANY NAME/SITE LOCATION S.C. PUBLIC SERVICE AUTHORITY CROSS, SC
CROSS SITE BERKELEY COUNTY

DETERMINATION IS BACT
PERMIT NO. P/C-08-190 DATE OF PERMIT ISSUANCE-- 12/03/81
DETERMINATION MADE BY SOUTH CAROLINA DHEC (AGENCY) OTTO PEARSON (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
(803)-758-5406 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
#3 GENERATOR	500.00 MW				
		PM	0.0300 LB/MMBTU		NSPS
				ESP	99.80
		SO2	0.4100 LB/MMBTU		BACT
				LOW S COAL	85.00
		NOX	0.6000 LB/MMBTU		B/N
				EQUIPMENT DESIGN & OPERATION	
		CO	0.0400 LB/MMBTU		BACT
				EQUIPMENT DESIGN & OPERATION	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/02/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1600.00 MMBTU/H

COMPANY NAME/SITE LOCATION TACOMA CITY LIGHT TACOMA, WA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X-82-06
DETERMINATION MADE BY EPA REGION X (AGENCY) DAVID TETTA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/11/82
ESTIMATED DATE OF START-UP--
(206)-442-1597 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	1600.00 MMBTU/H				
		SO2	0.2300 LB/MMBTU		
			367.0000 LB/H		
				DRY SCRUBBER	85.00
		SO2	1366.0000 T/YR		
				DRY SCRUBBER	85.00
		NOX	0.5000 LB/MMBTU		
			786.0000 LB/H		
		NOX	2926.0000 T/YR		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 425.00 MW

COMPANY NAME/SITE LOCATION TAMPA ELECT. CO. RUSKIN, FL 33601
P.O. BOX 111 HILLSBOROUGH COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) FSD-FL-040
DETERMINATION MADE BY FLORIDA DER (AGENCY) BOB KING (AGENCY CONTACT PERSON) (904)-488-1344 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/15/81
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	425.00 MW				
		PM	0.0300 LB/MMBTU		NSPS
			130.0000 LB/H		
				ESP	99.00
		SO2	0.8200 LB/MMBTU		NSPS
			3576.0000 LB/H		
				LIMESTONE SCRUBBER	90.00
				COAL WASHING	
		NOX	0.6000 LB/MMBTU		BACT
			2598.0000 LB/H		
				EQUIPMENT DESIGN & OPERATION	
		CO	0.0140 LB/MMBTU		BACT
			61.0000 LB/H		
				EQUIPMENT DESIGN & OPERATION	

NOTES ----------
BIG BEND STATION UNIT #4.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 350.00 MW

COMPANY NAME/SITE LOCATION TUCSON ELECT. POWER CO. UNIT #3 SPRINGERVILLE, AZ

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. AZP 79-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/11/80
ESTIMATED DATE OF START-UP--
(415)-974-8066 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED GEN. UNITS	350.00 MW				
		SOX	0.2180 LB/MMBTU		
			817.0000 LB/H		
				DRY LIMESTONE SCRUBBER	85.00
		NOX	0.4400 LB/MMBTU		
				COMBUSTION MODIFICATIONS	
		PM	0.0260 LB/MMBTU		
				BAGHOUSE	99.96

NOTES ----------
PSD INCREMENT COMPLIANCE AND NSPS USED IN THE DETERMINATION OF BACT EMISSION LIMITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 700.00 MW

COMPANY NAME/SITE LOCATION TUCSON ELECT. POWER CO. UNITS #1 & 2 TUCSON, AZ
APACHE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) AZ77-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON) (415)-974-8066 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/21/77
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL FIRED GEN. UNITS, 2	350.00 MW EA				
		PM	0.0340 LB/MMBTU	HOT SIDE ESP	BACT
		SO2	0.6900 LB/MMBTU	WET LIME SCRUBBER	BACT 64.00
		NOX	0.6970 LB/MMBTU		NSPS
COAL HANDLING		PM		SPRAY APPLIC. & DUST COLLECT	
BOTTOM ASH		PM		HYDRALIC CONVEYANCE	
FLY ASH		PM		PNEUMATIC CONVEYANCE	

NOTES ----------
DETAILED CONTROL STRATIGIES FOR THESE FACILITIES IS GIVEN IN PERMIT. WET SUPPRESSION SHALL BE USED TO CONTROL FUGITIVE DUST DU RING CONSTRUCTION. SAMPLING OF COAL IS REQUIRED. THIS DEGREE OF CONTROL WAS PROPOSED BY THE CO. IN ITS A PPLICATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 200.00 MMBTU/H

COMPANY NAME/SITE LOCATION TVA - AFBC PILOT PLANT - SHAWNEE STEAM * PADUCAH, KY 42001
AFBC PILOT PLANT MCCRACKEN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-80-18
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)

DATE OF PERMIT ISSUANCE-- 04/14/80
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLUIDIZED BED BOILER	200.00 MMBTU/H				
		SO2	1.2000 LB/MMBTU		BACT
				FLUIDIZIED BED COMBUSTION	85.00
		PM	0.1000 LB/MMBTU		BACT
				BAGHOUSE	99.90

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 230.00 MW

COMPANY NAME/SITE LOCATION TVA - PARADISE - DRAKESBORO
720 EDRCO BLDG. , KY
MUHLENBURG COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-79-47
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)
DATE OF PERMIT ISSUANCE-- 06/25/79
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL CRUSHING PLANT	2000.00 T/H	PM			
COAL WASHING PLANT	2000.00 T/H COAL	PM	325.2000 T/YR ALLOWABLE 136.5000 T/YR ACTUAL	BAGHOUSE ROTARY CAR DUMP	LAER 98.00

NOTES ----------
THIS IS A NON ATTAINMENT AREA - DETERMINATION STATES - "SINCE TVA IS WILLING TO ACCEPT AN ALLOWABLE ... OF LESS THAN 50 TPY .. . NO FURTHER ANALYSIS UNDER OFFSET POLICY ISREQUIRED."
ALSO COVERS PERMIT NUMBER C-81-073. THIS ADDITIONAL PERMIT IS LAER. ROTARY CAR DUMP 93% EFF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1600.00 MW

COMPANY NAME/SITE LOCATION UTAH PWR & LT CO-HUNTER STATION
NEAR CASTLE DALE , UT
EMERY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/02/80
ESTIMATED DATE OF START-UP-- 1983
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACTIVE STORAGE					
		PM	2.0000 LB/H	SPRAY & ENC.	BACT 90.00
ASH SILO UNLD		VE	20.0000 % OPACITY		
		VE	20.0000 % OPACITY	KEPT DAMP	BACT 100.00
ASH SILO VENT					
		PM	49.0000 LB/H	FF	BACT 99.80
		VE	20.0000 % OPACITY		
BOILER, #4	860.00 MW				
		NOX	0.5500 LB/MMBTU	BOILER DESIGN	BACT 65.00
		PM	0.0300 LB/MMBTU	FF	BACT 90.00
		SO2	0.1200 LB/MMBTU	SCRUBBER	BACT 90.00
		VE	20.0000 % OPACITY		

(CONTINUED) UTAH PWR & LT CO-HUNTER STATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CONV	2.50 MMT/YR				
		PM	5.0000 LB/H	ENC.	BACT 90.00
		VE	20.0000 % OPACITY		
HAUL ROADS					
		PM	2.7000 LB/H	ASPHALT + H20	BACT 90.00
INACT STORAGE					
		PM	40.0000 LB/H	SEAL. & COMP.	BACT 90.00
		VE	20.0000 % OPACITY		
LIME T/S					
		VE	20.0000 % OPACITY	FF	BACT 99.80
SLUDGE MIX(ASH)					
		VE	20.0000 % OPACITY	FF	BACT 99.80
TRANS	2.50 MMT/YR				
		PM	1.0000 LB/H	SPRAYS & ENC.	BACT 98.50
		VE	20.0000 % OPACITY		
TRUCK UNLD	2.50 MMT/YR				
		PM	0.1000 LB/H	SPRAYS & ENC.	BACT 98.50
		VE	20.0000 % OPACITY		

NOTES ----------
CEM QA REQUIRED BY 40CFR, PART 60, SUBPART DA. BOILER EMISSION COMPLIANCE FOR SOX, NOX, OPACITY WILL BE DETERMINED BY CEM REPO
RTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 2080.00 MW

COMPANY NAME/SITE LOCATION WASHINGTON WATER POWER CO. , WA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X-83-01
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON) (206)-442-1567 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/17/82
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CGS BOILER		SO2	0.2200 LB/MMBTU 30D R AV		
			1140.0000 LB/H 24H D AV		
		NOX	0.5000 LB/MMBTU SB. COAL		
			0.6000 LB/MMBTU BIT. COAL		
			LIMITS ARE 30 DAY ROLLIN AVG		
		PM	0.0300 LB/MMBTU		
		VE	20.0000 % OPACITY		
		CO	332.0000 LB/H		
		VOC	3.3200 LB/H		
		PB	0.2700 LB/H ANNUAL AV		
		BE	0.0200 LB/H ANNUAL AV		
		HG	0.0300 LB/H ANNUAL AV		
		F	1.1500 LB/H ANNUAL AV		
		SUL*	80.9000 LB/H ANNUAL AV		
ROTARY CAR DUMPER (COAL)		PM	0.0100 GR/DSCF	BAGHOUSE	90.00
		VE	5.0000 % OPACITY		
ROTARY CAR DUMPER (LIMESTONE)		PM	0.0100 GR/DSCF	BAGHOUSE	90.00
		VE	5.0000 % OPACITY		

(CONTINUED) WASHINGTON WATER POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CONVEYORS					
		PM	0.0100 GR/DSCF		
COAL CONVEYOR DISCHARGE		VE	5.0000 % OPACITY	BAGHOUSE	99.00
		PM			
COAL CONVEYOR TRIPPERS		VE	20.0000 % OPACITY	TELESCOPIC CHUTES/LOWERING WELL	75.00
		PM	0.0100 GR/DSCF		
TRANSFER HOUSES		VE	5.0000 % OPACITY	BAGHOUSE	99.00
		PM	0.0100 GR/DSCF		
COAL SUPPLY SYSTEM		VE	5.0000 % OPACITY	BAGHOUSE	99.00
		PM	0.0100 GR/DSCF		
COAL SILOS		VE	5.0000 % OPACITY	BAGHOUSE	99.00
		PM	0.0100 GR/DSCF		
LIMESTONE SILOS		VE	5.0000 % OPACITY	BAGHOUSE	99.00
		PM	0.0100 GR/DSCF		
BOTTOM ASH DISPOSAL		VE	5.0000 % OPACITY	BAGHOUSE	99.00
		PM		FIXATED W/SCRUBBER SLUDGE	100.00

(CONTINUED) WASHINGTON WATER POWER CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROAD DUST					
		PM			
FLY ASH HANDLING & SILOS				CHEM. STABILIZ.,DESIGN & OPER. PRACT.	85.00
		PM	0.0100 GR/DSCF		
				BAGHOUSE	99.00
WASTE TREATMENT BLDG.		VE	5.0000 % OPACITY		
		PM	0.0100 GR/DSCF		
				BAGHOUSE	99.00
DEAD STORAGE		VE	5.0000 % OPACITY		
		PM	20.0000 GR/DSCF		
				SURFACE STABILIZATION	
		VE	95.0000 % OPACITY		

NOTES ----------
THE PROPOSED CONTROL SYSTEM CONSISTS OF A LIMESTONE FGD SYSTEM FOR SO2 REMOVAL PRECEEDED BY A BAGHOUSE (OR POSSIBLY AN ESP) FO R PARTICULATE REMOVAL. THE APPLICABLE TRACE MATERIALS WILL ALSO BE REMOVED TO SOME EXTENT BY THE PARTICULATE AND SO2 CONTROL SYSTEMS. NOX,CO,VOC ARE MINIMIZED BY COMBUSTION CONTROL (IE. EXCESS AIR CONTROL, ETC.). AMO UNTS SITED ARE EMISSIONS PER UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983 INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 640.00 MW (NET)

COMPANY NAME/SITE LOCATION WEST TEXAS UTILITIES CO. OKLAUNION, TX
WILBERGER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 05/20/82
PERMIT NO. 9015 ESTIMATED DATE OF START-UP-- 1982
DETERMINATION MADE BY TEXAS ACB (AGENCY) JAMES CROCKER (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATOR	6.80 MMBTU/H				
		PM	0.0300 LB/MMBTU		NSPS
				ESP	99.70
		SO2	0.5000 LB/MMBTU		NSPS
				WET LIMESTONE SCRUBBER	70.00
		NOX	0.5000 LB/MMBTU		
				LOW NOX BURNERS	
COAL & LIMESTONE STORAGE/HANDLI*					
		PM	60.0000 LB/H		
				DUST CONTROL SYSTEM	

NOTES ----------
THIS IS A COAL FIRED BOILER BURNING LOW SULFUR COAL (.64% S WORST CASE).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 1160.00 MW

COMPANY NAME/SITE LOCATION WISCONSIN ELEC. POWER CO., PLEASANT PRA* , WI
KENOSHA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-76-A-1
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/09/76
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	580.00 MW				
		PM	0.1000 LB/MMBTU	ESP	NSPS
		SO2	1.2000 LB/MMBTU COAL		99.00
			0.8000 LB/MMBTU OIL		NSPS
				LOW S FUEL -- <0.7% COAL, <0.5% OIL	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 400.00 MW

COMPANY NAME/SITE LOCATION WISCONSIN POWER & LIGHT CO., EDGEWATER * SHEBOYGAN, WI

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-3
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/26/77
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	400.00 MW				
		PM	0.1000 LB/MMBTU		NSPS
		SO2	1.2000 LB/MMBTU		NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - COAL 321.00 MW

COMPANY NAME/SITE LOCATION WISCONSIN PUBLIC SERVICE CORP., WESTON * , WI
MARATHON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-77-A-4
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/11/77
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	321.00 MW			
		PM	0.1000 LB/MMBTU	NSPS
		SO2	1.2000 LB/MMBTU	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL

COMPANY NAME/SITE LOCATION ANGUS PETROTECH , CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 4132002-004
DETERMINATION MADE BY KERN COUNTY APCD (AGENCY) TOM PAXSON (AGENCY CONTACT PERSON) (805)-861-3682 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/29/83
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, OIL FIRED	62.50 MMBTU/H				
		SO2	61.4000 LB/D	SODIUM BASED SCRUBBERS	
		NOX	199.0000 LB/D	LOW NOX BURNERS	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 81.90 MBTU/H

COMPANY NAME/SITE LOCATION HOOKER CHEMICAL & PLASTICS CORP. PERRYVILLE, MD 21903
P.O. BOX D
CECIL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 78MD07
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/03/79
ESTIMATED DATE OF START-UP-- 1980
(215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
OIL FIRED BOILER	81.90 MMBTU/H	SO2	355.1000 LB/H	S IN FUEL LIM. TO 1.3% BY WT	BACT

NOTES ----------
355.1 LB/H, 3 BOILERS (2 EXISTING & 1 NEW) WITH COMMON STACK

NEVER BUILT - COMPANY OUT OF BUSINESS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL 185.00 MMBTU/H EA

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER , TX 77001

MATAGORDA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-209
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/16/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, 2 EA	185.00 MMBTU/H				
		SO2	0.5000 LB/MMBTU		
			92.1000 LB/H		BACT
				LOW SULFUR #2 FUEL OIL	
		PM	0.1000 LB/MMBTU		
			18.3500 LB/H		BACT
				FGD	
				O2 CONTROL	
		NOX	0.3000 LB/MMBTU		
			55.0000 LB/H		BACT
				LOW NOX BURNER	
				LEA FIRING	

NOTES ----------
NO. 2 FUEL OIL -- < 0.5% SULFUR BY WT. CONTINUOUS OPERATION -- 8760 HR/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OIL

COMPANY NAME/SITE LOCATION NORTHERN INDIANA PUBLIC SERVICE CO., SC* , IN
JASPER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-79-A-25
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/16/79
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GENERATOR, OIL FIRED, 2					
		SO2		LIMITED TO 0.8% S FUEL OIL	
		NOX	75.0000 PPM		

NOTES ----------
EACH TURBINE RESTRICTED TO 2000 H/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER IN-0024

SOURCE TYPE CODE 1.2

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - NATURAL GAS 18.00 MW

COMPANY NAME/SITE LOCATION APPLIED POWER TECHNOLOGY OROVILLE, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. SAC 83-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) JOE SLAMOVICH (AGENCY CONTACT PERSON) (415)-974-8235 (PHONE)
DATE OF PERMIT ISSUANCE-- 11/29/83
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, 2	307.10 MMBTU/H	PM	11.9000 LB/H	ESP & MULTICLONES	96.70
		NOX	35.4000 LB/H	COMBUSTION CONTROLS	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - NATURAL GAS 175.00 MLB/H

COMPANY NAME/SITE LOCATION CONSUMERS POWER CO. MIDLAND, MI

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 99-81
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) DAVID FERRIER (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/01/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS ... & BASIS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
BOILERS, NAT. GAS, 3 EA	175.00 MLB/H	NOX	0.2000 LB/MMBTU BURNER DESIGN & EX. AIR CONTRL

NOTES ----------
3 NATURAL GAS-FIRED BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - NATURAL GAS

COMPANY NAME/SITE LOCATION MOBAY CHEMICAL CORP. KANSAS CITY, MO

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 485
DETERMINATION MADE BY KANSAS CITY AQS (AGENCY) LARRY COLE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/16/83
ESTIMATED DATE OF START-UP-- 1984
(816)-274-2501 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, 2 TOTAL	198.60 MMBTU/H				
		NOX	0.2000 LB/MMBTU		NSPS
		SO2	MINIMIZE		
		VOC	MINIMIZE		
		PM	MINIMIZE		
		CO	MINIMIZE		

NOTES ----------
SOURCE TEST FOR NOX BY MAY 1984. ALLOWABLE FUELS ARE NATURAL GAS / #2 FUEL OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/13/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - NATURAL GAS 2000.00 HP

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS ENTERPRISE, MS
CLARKE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-MS-036
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY) DWIGHT WILEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/21/81
ESTIMATED DATE OF START-UP--
(601)-354-2550 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, NAT. GAS	14000.00 CF/H N. G.				
		NOX	37.4000 LB/H 163.9000 T/YR	BOILER DESIGN & OPERATION	NSPS
		CO	10.5000 LB/H 46.2000 T/YR	BOILER OPERATION & DESIGN	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 155.62 MMBTU/H

COMPANY NAME/SITE LOCATION AFTON GENERATING CO. AFTON, WY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-483
DETERMINATION MADE BY WYOMING AQD (AGENCY) LEE GRIBOVICZ (AGENCY CONTACT PERSON) (307)-332-3144 (PHONE)

DATE OF PERMIT ISSUANCE-- 02/15/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, WOOD & BARK WASTE	155.62 MMBTU/H				
		PM	0.0500 GR/DSCF AT 12% CO2		BACT
			0.1000 LB/MMBTU		
				MULTICLONE & LOW ENERGY WET SCRUBBER	80.00
		CO	0.4400 LB/MMBTU		BACT
				COMBUSTION CONTROL	
		VOC	0.0900 LB/MMBTU		BACT
		NOX	0.2400 LB/MMBTU		BACT
				COMBUSTION CONTROL	

NOTES ----------
AS PERMIT CONDITION, AN ADJACENT LUMBER MILL WILL DISCONTINUE USE OF 2 WOOD WASTE BURNERS, A WOOD CHIP FIRED BOILER, AND AN OI
L FIRED BOILER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE

COMPANY NAME/SITE LOCATION CO-GEN COEUR D'ALENE, ID

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY IDAHO AQB (AGENCY) CLINT AYER (AGENCY CONTACT PERSON) (208)-334-5360 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/15/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, WOOD FIRED	104.00 MMBTU/H				
		PM	3.9500 LB/H	MULTICLONE & BAGHOUSE	98.40
		CO	5.9000 LB/H		
		NOX	19.0000 LB/H		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 6.00 MW

COMPANY NAME/SITE LOCATION CO-GEN., INC. COEUR D'ALENE, ID

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-16
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON) (206)-442-1193 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/15/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	6.00 MW				
		PM	0.0340 LB/MMBTU		
			16.6000 T/YR		
				ESP	99.00
		NOX	0.1700 LB/MMBTU		BACT
			88.2000 T/YR		
		CO	0.2200 LB/MMBTU		BACT
			117.6000 T/YR		
		VOC	0.0800 LB/MMBTU		BACT
			117.6000 T/YR		

NOTES ----------
GENERAL DESIGN CONTRIBUTES TO REDUCTION OF OIL POLLUTANTS AND INCLUDES 1) INCREASED BOILER HEIGHT FOR BETTER EFFICIENCY, 2) OV
ERFIRE AND UNDERFIRE AIR, 3) FEEDWATER HEATERS TO INCREASE EFFICIENCY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE

COMPANY NAME/SITE LOCATION HAYFORK COGENERATION PROJECT , CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. TAC-012
DETERMINATION MADE BY NORTH COAST UNITED AQMD (AGENCY) CHUCK SASSENRATH (AGENCY CONTACT PERSON) (707)-443-3093 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/14/83
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, WOOD WASTE	236.00 MMBTU/H				
		PM	0.0400 LB/MMBTU	MULTICLONE/ESP	99.30
		NOX	0.1500 LB/MMBTU	DESIGN	
		CO	0.3500 LB/MMBTU	COMBUSTION MODIFICATION	
		VOC	0.0700 LB/MMBTU	DESIGN	

NOTES ----------
STATE FILE # A320-024

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 50.00 MW

COMPANY NAME/SITE LOCATION MCNEIL GENERATING STATION BURLINGTON, VT
BURLINGTON ELECTRIC LIGHT DEP*

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY VERMONT AEC (AGENCY) HAROLD GARABEDIAN (AGENCY CONTACT PERSON) (802)-828-3395 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/01/80
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WOOD FIRED FURNACE	670.00 MMBTU/H				
		PM	0.0070 LB/MMBTU		
			0.0070 GR/DSCF AT 12% CO2		
				MEC. DUST COLLECTOR & ESP	99.90
				80%-MEC COLLECT. & 99.5%-ESP	

NOTES ----------
418000 ACFM AT 310F-CYCLONES-LARGE DIA. CERAMIC-24 TUBE, 58 IN. DIAMETER, 12.3 FT LONG, DELTA P=3.4 IN. H2O, INLET VEL. 63.1FT /SEC-ESP-WEIGHTED WIRE TYPE ,TOTAL PLATE AREA 280000 SQ. FT.,SCA=672 SQ. FT./1000 ACFM, LINEAR VEL. 3 FT/SEC - 9 FIELDS, 119 GAS PASSAGES, 9 IN. PASSAGE SPACING, 45 FT GAS TRAVEL DISTANCE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE 35.00 MMBTU/H

COMPANY NAME/SITE LOCATION TEXAS ELECTRIC COOP.,INC. , TX
JASPER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9369
DETERMINATION MADE BY TEXAS ACB (AGENCY) JIM CROCKER (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 02/07/84
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	35.00 MMBTU/H				
		PM	0.3000 LB/MMBTU		BACT
				CYCLONES	92.50
		VOC	0.2000 LB/MMBTU		BACT
		NOX	0.0800 LB/MMBTU		BACT
		SO2	0.2000 LB/MMBTU		BACT
		CO	1.1000 LB/MMBTU		BACT

NOTES ----------
PM CONTROL IS TWO CYCLONES IN SERIES. COLLECTION EFFICIENCIES ARE 85% FOR THE PRIMARY AND 50% FOR THE SECONDARY. MORE EFFICIENT PM CONTROL WAS NOT REQUIRED DUE TO ECONOMIC ANALYSIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - WOOD WASTE

COMPANY NAME/SITE LOCATION ULTRASYSTEMS BLUE LAKE, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. HAC-129
DETERMINATION MADE BY NORTH COAST UNITED AQMD (AGENCY) CHUCK SASSENRATH (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/12/84
ESTIMATED DATE OF START-UP-- 1980
(707)-443-3093 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, WOOD WASTE	162.00 MMBTU/H				
		PM	0.0450 LB/MMBTU	MULTICLONE/GRANULAR BED ELECTO-SCRUBBER	99.20

NOTES ----------
STATE FILE A320-029

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 65.00 MW

COMPANY NAME/SITE LOCATION AMES MUNICIPAL POWER PLANT AMES, IA STORY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/05/79
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, UNIT #8, STEAM GEN.	769.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	HOT SIDE ESP'S	BACT 99.60
		SO2	1.2000 LB/MMBTU	LOW S COAL	BACT
		NOX	0.7000 LB/MMBTU	BOILER DESIGN	BACT

NOTES ----------
UPON STARTUP OF UNIT 8, SO2 EMISSIONS FROM EXISTING UNITS 5,6, AND 7 WILL BE REDUCED FROM PRE-MODIFICATION EMISSION LEVELS BEC AUSE OF A PROJECTED VIOLATION OF THE 24HR SO2/NAAQS. SEE IDNA CONSENT ORDER 79-A-007. THE STACKS ON TWO EXISTING UNITS AND ON PROPOSED UNIT 8 ARE LESS THAN GEP STACK HEIGHT. UNIT #8 WILL BE CAPABLE OF BURNING UP TO 30% REFUSE-DERIVED FUEL. TWO E SP'S WILL BE INSTALLED, STACKED ONE ON TOP OF THE OTHER BECAUSE OF SPACE LIMITATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 90.00 MW

COMPANY NAME/SITE LOCATION CITY OF COLUMBUS COLUMBUS, OH FRANKLIN COUNTY

DETERMINATION IS B/L FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-80-3
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/16/79
ESTIMATED DATE OF START-UP--
(312)-886-6054 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, REFUSE/COAL FIRED, 6 EA	240.00 MMBTU/H				
		PM	0.1000 LB/MMBTU		
		SO2	0.9300 LB/MMBTU 6 BOILERS OPER.		
			1.4400 LB/MMBTU,<4 BOILERS OPER.		
		NOX	0.5000 LB/MMBTU		
			0.7000 LB/MMBTU COAL ONLY		

NOTES ----------
REFUSE MUST COMPRISE AT LEAST 50% OF THE TOTAL HEAT INPUT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 3600.00 MMBTU/H

COMPANY NAME/SITE LOCATION FLORIDA POWER & LIGHT
BARWICK ROAD
SANFORD, FL 32771
VOLUSIA COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO. FL-047
DETERMINATION MADE BY FLORIDA DER (AGENCY)
ED PALAGYI (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/20/80
ESTIMATED DATE OF START-UP-- 1979
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL PULVERIZERS	96000.00 LB/H	PM	7.7000 LB/H 11.0900 T/YR BAGHOUSE	NSPS 99.96

NOTES ----------
TEST FACILITY - 50/50 COAL/OIL FIRED UNIT.

TESTING COMPLETED, SOURCE NO LONGER EXISTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 4457.00 MMBTU/H

COMPANY NAME/SITE LOCATION GULF STATES UTILITY WEST LAKE, LA
CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-305
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/24/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE	1390.00 MMBTU/H				
		NOX	0.2700 LB/MMBTU OIL		NSPS
			0.2700 LB/MMBTU GAS		
				STEAM INJECTION	60.00
		CO	0.1300 LB/MMBTU OIL		BACT
			0.0900 LB/MMBTU GAS		
				EFFICIENT COMBUSTION	
		SO2	0.6800 LB/MMBTU OIL		BACT
			0.0010 LB/MMBTU GAS		
				LOW SULFUR FUEL (.7%)	
		PM	0.2100 LB/MMBTU OIL		BACT
			0.0010 LB/MMBTU GAS		
				EFFICIENT COMBUSTION (.5% ASH)	
COAL GASIFIER	75.34 T/H COAL				
		NOX	0.0300 LB/T		BACT
				EXISTING INTERNAL CONTROLS	
		CO	0.6900 LB/T		BACT
				EXISTING INTERNAL CONTROLS	
		SO2	0.1000 LB/T		BACT
				EXISTING INTERNAL CONTROLS	
		PM	0.0300 LB/T		BACT
				EXISTING INTERNAL CONTROLS	

(CONTINUED) GULF STATES UTILITY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	1706.00 MMBTU/H				
		NOX	0.1900 LB/MMBTU COAL GAS		BACT
			0.3000 LB/MMBTU OIL		
				LOW BTU COAL GAS AS FUEL	56.00
		CO	0.0080 LB/MMBTU COAL GAS		BACT
			0.0300 LB/MMBTU OIL		
				LOW BTU COAL GAS AS FUEL	
		SO2	0.6200 LB/MMBTU COAL GAS		BACT
			0.6600 LB/MMBTU OIL		
				LOW BTU COAL GAS AS FUEL	
		PM	0.0300 LB/MMBTU COAL GAS		BACT
			0.0100 LB/MMBTU OIL		
				LOW BTU COAL GAS AS FUEL	
COAL GASIFIER	53.65 T/H COAL				
		NOX	0.0100 LB/T		BACT
				RECYCLE PROCESS GAS	
		CO	0.0100 LB/T		BACT
				EFFICIENT COMBUSTION	
		SO2	0.1900 LB/T		BACT
				TAIL GAS FLARE	
		PM	0.0100 LB/T		BACT
				NONE	
TURBINE	1361.00 MMBTU/H				
		NOX	0.2500 LB/MMBTU		NSPS
				STEAM INJECTION	
		CO	0.0900 LB/MMBTU		BACT
				EFFICIENT COMBUSTION	
		SO2	0.2100 LB/MMBTU		BACT
				LOW SULFUR FUEL (.7%)	
		PM	0.0010 LB/MMBTU		BACT
				COAL GAS SLOW ASH FUEL (.5%)	
COAL DELIVERY					
		PM	0.0800 LB/H		BACT
				WETTING	

(CONTINUED) GULF STATES UTILITY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CRUSHING/SCREENING					
		PM	0.1400 LB/H	BAGHOUSE	BACT
PULVERIZING					
		PM	0.0800 LB/H	BAGHOUSE	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 442.00 MMBTU/H

COMPANY NAME/SITE LOCATION HARNEY ELECT. HINES, OR

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-12
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/14/81
ESTIMATED DATE OF START-UP--
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	221.00 MMBTU/H EA				
		SO2	0.1800 LB/MMBTU		BACT
				DRY SCRUBBING	85.00
		NOX	0.5000 LB/MMBTU		BACT
				DRY COMBUSTION CONTROLS	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 350.00 HP

COMPANY NAME/SITE LOCATION INTERNATIONAL PAPER CO. , TX
DALLAS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 14163
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 02/04/84
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, PACKAGE	14.60 MMBTU/H				
		PM	0.0100 LB/MMBTU		BACT
		VOC	0.0020 LB/MMBTU		BACT
		NOX	0.1000 LB/MMBTU	AUTOMATIC O2 CONTROL	BACT
		SO2	0.2200 LB/MMBTU	0.3% S IN OIL	BACT
		CO	0.0300 LB/MMBTU		BACT

NOTES ----------
EMISSION LIMITS ARE BASED ON OIL FIRING WHICH WAY BE USED AS BACK-UP. NATURAL GAS WILL BE PRIMARY FUEL. GAS FIRING EMISSIONS A RE - NEGLIGIBLE FOR PM, SO2, VOC, AND CO, BUT 0.09 LB/MMBTU FOR NOX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS 700.00 MW

COMPANY NAME/SITE LOCATION POWER AUTHORITY STATE OF NEW YORK STATEN, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) DENNIS SANTELLA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/22/82
ESTIMATED DATE OF START-UP-- 1987
(212)-264-9628 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	6700.00 MMBTU/H				
		PM	0.0210 LB/MMBTU COAL		BACT
			0.0300 LB/MMBTU COAL/ROF		
		PM	0.0120 LB/MMBTU OIL		BACT
		VE	20.0000 % OPACITY		
		SO2	0.4000 LB/MMBTU		BACT
				FGD	92.00
		NOX	0.6000 LB/MMBTU COAL		BACT
			0.3000 LB/MMBTU OIL		
				GOOD COMBUSTION	
		CO	0.0410 LB/MMBTU		BACT
				GOOD COMBUSTION	
AUX. BOILER	220.00 MMBTU/H				
		PM	0.0840 LB/MMBTU		
				GOOD COMBUSTION	
		SO2	0.3000 % S FUEL		SIP
		NOX	0.3000 LB/MMBTU		
COAL HANDLING					
		COA*			BACT
				USE OF PRE-WASHED COAL	

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COAL CRUSHED					
		PM	0.0300 GR/DSCF		BACT
		VE	20.0000 % OPACITY		
COOLING TOWER					
		PM	0.0020 % OF H2O FLOW	DRIFT ELIMINATOR	

NOTES ----------
CONTACT REGION 2 FOR DESIGN SPECIFICS FOR CONTROL DEVICES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - MULTIPLE FUELS

COMPANY NAME/SITE LOCATION STONE CONTAINER CORP. HODGE, LA JACKSON PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-LA-505
DETERMINATION MADE BY LAQD/EPA REGION VI (AGENCY) BHARAT CONTRACTOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/02/83
ESTIMATED DATE OF START-UP-- 1984
(504)-342-8940 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED	1023.00 MMBTU/H				
		SO2	1227.6000 LB/H		B/N
			1.2000 LB/MMBTU	SINGLE-ALKALI FGD	95.00
		PM	102.3000 LB/H		NSPS
			0.1000 LB/MMBTU	ESP	99.00
		NOX	716.1000 LB/H		B/N
			0.7000 LB/MMBTU	BOILER DESIGN	
		CO	47.6000 LB/H		BACT
			0.0465 LB/MMBTU	BOILER DESIGN	
		VOC	14.3000 LB/H		BACT
				BOILER DESIGN	
		BE	0.0006 LB/H		BACT
				BOILER DESIGN	
		F	0.8200 LB/H		BACT
BOILER, COMBINATION, BARK/COAL *	680.40 MMBTU/H				
		SO2	816.5000 LB/H		B/N
			1.2000 LB/MMBTU	LOW S FUEL/STACK MONITOR	

PM	68.0000	LB/H	
	0.1000	LB/MMBTU	NSPS
		ESP	
NOX	476.3000	LB/H	99.00
	0.7000	LB/MMBTU	B/N
		OVERFIRE AIR COMPARTMENT	
CO	420.4000	LB/H	
	0.6180	LB/MMBTU	BACT
		OVERFIRE AIR COMPARTMENT	
VOC	105.9000	LB/H	
		OVERFIRE AIR COMPARTMENT	BACT
BE	0.0003	LB/H	
		OVERFIRE AIR COMPARTMENT	BACT
F	3.7500	LB/H	
			BACT

NOTES ----------
BASIA OF F LIMIT ON BOILER IS 100. PPM F IN COAL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 161000.00 LB/H

COMPANY NAME/SITE LOCATION CALIFORNIA POWER & LIGHT FIREBAUGH, CA
FRESNO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. SJ 83-08
DETERMINATION MADE BY EPA REGION IX (AGENCY) MATT HABER (AGENCY CONTACT PERSON) (415)-974-8209 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/01/84
ESTIMATED DATE OF START-UP-- 1986

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, 2 EA	80500.00 LB/H BIOMASS				
		SO2	37.0000 LB/H		
			40.0000 PPM AT 3% O2		
				DRY SCRUBBER	89.00
				LIMIT ON FUEL S CONTENT IS 0.21 %.	
		NOX	140.0000 LB/H		
				CONTROL OF OVERFIRE & UNDER FIRE AIR	
		CO	309.0000 LB/H		
				PROPER COMBUSTION	
		PM	0.0100 GR/DSCF		
				BAGHOUSE	

NOTES ----------
THE TOTAL PLANT HAS A NET ELECTRICAL GENERATING CAPACITY OF APPROX. 50 MW. ALL BACT IS DETERMINED BY TECH./ ECONOMICS. TSP LIM IT IS DISTRICT LAER. CEM'S REQUIRED FOR NOX, SO2, OPACITY. FINAL NOX PPM LIMIT WILL BE SET AFTER OPERATION COMMENCES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER

COMPANY NAME/SITE LOCATION CONTINENTAL CARBON CO. , TX
MOORE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-9011
DETERMINATION MADE BY TEXAS ACB (AGENCY) JAMES CROCKER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/04/82
ESTIMATED DATE OF START-UP-- 1981
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WASTE GAS DRYER	13.60 MMBTU/H				
		PM	2.2000 LB/H	INCIN. OF CARBON BLACK IN C. BLACK REACTOR	
		NOX	5.8000 LB/H		
		SO2	69.1000 LB/H		

NOTES ----------
100% EFF. IN REDUCING REDUCED SULFUR COMPOUNDS & HYDROCARBONS, A CORRESPONDING INCREASE IN SULFUR DIOXIDE EMISSIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 1500.00 MW

COMPANY NAME/SITE LOCATION HOUSTON LIGHTING & POWER FARRAR, TX
LIMESTONE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-371
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/10/81
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, LIGNITE-FIRED, 2 EA	7863.00 MMBTU/H				
		PM	0.0300 LB/MMBTU	ELECTROSTATIC PRECIPITATOR	NSPS 99.95
		SO2		FLUE GAS DESULFURIZATION	82.00
		NOX	0.6000 LB/MMBTU	TANGENTIAL FIRING, LOW NOX BURNER	NSPS
		CO	0.1100 LB/MMBTU	CONTROLLED COMB. & O2 MON.	BACT
		VOC	0.0010 LB/MMBTU	BOILER DESIGN	BACT
		PB	0.0000 LB/MMBTU	FLUE GAS DESULFURIZATION	BACT 98.00
		HG	0.0000 LB/MMBTU	FLUE GAS DESULFURIZATION	BACT 13.00
		BE	0.0000 LB/MMBTU	FLUE GAS DESULFURIZATION	BACT 99.40
		H2S*	0.0310 LB/MMBTU	MIST ELIMINATOR	BACT
LIMESTONE RAILCAR UNLOAD					
		PM	1.3300 LB/H	WET SUPPRESSION	BACT

(CONTINUED) HOUSTON LIGHTING & POWER

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIMESTONE RECLAIM & TRANSFER		PM	0.0500 LB/H	BAGHOUSE	BACT 99.80
LIMESTONE LOADOUT		PM	0.0200 LB/H	BAGHOUSE	BACT 99.80
LIMESTONE STORAGE PILE		PM	0.3700 LB/H	TELESCOPIC CHUTE	BACT
LIMESTONE RECLAIM TUNNEL		PM	0.0200 LB/H	BAGHOUSE	BACT 99.80
LIMESTONE FEED SILO, 3 EA		PM	0.0100 LB/H	BAGHOUSE	BACT 99.80
FLYASH SILO		PM	0.1200 LB/H	BAGHOUSE	BACT 99.80
FEED SILO, WASTE BLENDING		PM	0.1200 LB/H	BAGHOUSE	BACT 99.80
PUGHILL, WASTE BLENDING		PM	0.2100 LB/H	BAGHOUSE	BACT 99.80

NOTES ----------
PM LIMIT TO BE COMPUTED BY APPLICANT USING GRAPH DERIVED FROM NSPS (CONSIDER CONTROL EFFICIENCY AND FUEL SULFUR CONTENT). SULF
URIC ACID MIST LIMIT APPLIES WHEN FIRING LIGNITE WITH UP TO 1.71 LB/MMBTU.
OTHERWISE, 0.075 LB/MMBTU WHEN FIRING LIGNITE WITH MORE THAN 1.71 LB/MMBTU.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 2010.00 T/D

COMPANY NAME/SITE LOCATION METROPOLITAN SERVICE DISTRICT OREGON CITY, OR

DETERMINATION IS B/L FOR A NEW SOURCE.
PERMIT NO. 03-2667
DETERMINATION MADE BY OREGON DEQ (AGENCY) LLOYD KOSTOW (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(503)-229-5186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 3	2010.00 T/D				
		PM	0.0150 GR/DSCF	BAGHOUSE	LAER 99.90
		VOC	0.1200 LB/T	GOOD COMBUSTION	BACT
		SO2	0.5730 LB/T	DRY SCRUBBER	BACT 80.00
		NOX	3.5800 LB/T		BACT
		HG	0.0025 LB/T	BAGHOUSE	BACT
		CO	1.4300 LB/T	GOOD COMBUSTION	BACT
		PB	0.0075 LB/T	BAGHOUSE	BACT
		F	0.0170 LB/T	DRY SCRUBBER	BACT 70.00
		HCL	0.6690 LB/T	DRY SCRUBBER	BACT 90.00
		TET*	0.0000 LB/T	BAGHOUSE GOOD COMBUSTION	BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

NOTES ----------
THE FINAL PERMIT WAS NOT ISSUED BECAUSE APPLICATION WAS WITHDRAWN FOLLOWING DEFEAT OF THE PROJECT BY VOTE ON INITIATIVE. LIMIT ARE BASED ON PROPOSED PERMIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 80.00 MW

COMPANY NAME/SITE LOCATION OCCIDENTAL GEOTHERMAL - OXY #1 , CA
LAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NSR-4-4-1 NC-81-03
DETERMINATION MADE BY EPA REGION IX (AGENCY) MATT HABER (AGENCY CONTACT PERSON) (415)-974-8209 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/10/82
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER PLANT	80.00 MW				
		H2S	8.0000 LB/H	STRETFORD PROC.,H2O2 TREAT., DESIGN	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1934

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER

COMPANY NAME/SITE LOCATION PACIFIC GAS & ELECTRIC CO., GEYSERS UNI* , CA
SONOMA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) NSR-4-4-3 SSB-81-03
DETERMINATION MADE BY EPA REGION IX (AGENCY) MATT HABER (AGENCY CONTACT PERSON) (415)-974-8209 (PHONE)
DATE OF PERMIT ISSUANCE-- 07/27/82
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER PLANT	2.00 MMLB/H STEAM	H2S	10.4000 LB/H	STRETFORD PROCESS & CATALYST SYS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 1500.00 MW

COMPANY NAME/SITE LOCATION TEXAS UTILITIES GEN CO. FRANKLIN, TX
TWIN OAKS STATION ROBERTSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-TX-32
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/22/77
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIGNITE FIRED STEAM	1500.00 MW				
		SO2	1.2000 LB/MMBTU	FGD	71.90
		PM	0.1000 LB/MMBTU	ESP	99.50

NOTES ----------
LIGNITE-FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 1500.00 MW

COMPANY NAME/SITE LOCATION TEXAS UTILITIES SERVICE, INC.
OAK KNOLL STATION
KOSSE, TX 76653
LIMESTON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-TX-47
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/09/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIGNITE FIRED STEAM	1500.00 MW	SO2	1.2000 LB/MMBTU	FGD	74.00
		PM	0.1000 LB/MMBTU	ESP	90.00

NOTES ----------
LIGNITE FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 792.00 MMBTU/H

COMPANY NAME/SITE LOCATION TEXAS UTILITIES SERVICE, INC. HENDERSON, TX
MILL CREEK RUSK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE. DATE OF PERMIT ISSUANCE-- 01/17/78
PERMIT NO. PSD-TX-44 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOE WINKLER (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIGNITE FIRED STEAM ELECT.	750.00 MW	SO2	1.2000 LB/MMBTU	FGD	89.70
		PM	0.1000 LB/MMBTU	ESP	99.44

NOTES ----------
EMISSIONS ARE BASED ON 1.06 LB/MMBTU SO2, 0.1 LB/MMBTU PART., AND 0.6 LB/HR NOX. LOWER EMISSIONS MAY BE REQUIRED.

LIGNITE FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- EXTERNAL COMBUSTION - OTHER 2250.00 T/D

COMPANY NAME/SITE LOCATION WESTCHESTER COUNTY RESOURCE RECOVERY PECKSKILL, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) BARRY TORNICK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/22/82
ESTIMATED DATE OF START-UP-- 1985
(212)-264-9579 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATORS, REFUSE FIRED, WAT*	750.00 T/D				
		PM	0.0300 GR/DSCF		BACT
				ESP	98.50
				AT 12% CO	
		CO	0.6200 LB/T REFUSE		BACT
				DESIGN, HIGH XS AIR, GOOD COMBUSTION	
		NOX	3.0000 LB/T REFUSE		BACT
				DESIGN, PROPER OPERATION	
		SO2			BACT
		PB	0.0300 GR/DSCF		BACT
				ESP	98.50
				AT 12% CO	
		HG	0.0300 GR/DSCF		BACT
				ESP	98.50
				AT 12% CO	
		BE	0.0300 GR/DSCF		BACT
				ESP	98.50
				AT 12% CO	
		ASB*	0.0300 GR/DSCF		BACT
				ESP	98.50
				AT 12% CO	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION

COMPANY NAME/SITE LOCATION DUTCHESS COUNTY RESOURCE RECOVERY POUGHKEEPSIE, NY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 134601 0024
DETERMINATION MADE BY NEW YORK DEC (AGENCY) JAMES HARRINGTON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/14/83
ESTIMATED DATE OF START-UP-- 1986
(518)-457-2018 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMBUSTION UNIT, WATER WALL & R*	200.00 T/D				
		PM	0.0150	GR/DSCF, NOTE	BACT
				FABRIC FILTER	99.50
		SO2	25.0000	LB/H	BACT
				LOW S FUEL	
		NOX	25.0000	LB/H	BACT
				PROPER BOILER DESIGN	
		CO	13.0000	LB/H	BACT
				GOOD COMBUSTION CONTROL	
		HCL	33.0000	LB/H, NOTE	
				LIME COATING FOR BAGHOUSE	80.00

NOTES ----------
APPLICANTS ORIGINAL PROPOSAL FOR ESP AT 0.03 GR/DSCF WAS PRELIMINARILY ACCEPTED AS BACT. HOWEVER, DECISION TO USE DRY SCRUBBER /BAGHOUSE FOR ACID GAS CONTROL YIELDED ADDITIONAL PARTICULATE CONTROL. ACID GAS CONTROL WAS NOT A REQUIREMENT OF NYS DEC.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

SOURCE TYPE/SIZE--- REFUSE INCINERATION 1800.00 T/D RDF

COMPANY NAME/SITE LOCATION ENERGY ANSWERS CORP. SEMASS PROJECT ROCHESTER, MA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 025-120MA14
DETERMINATION MADE BY EPA REGION I (AGENCY) JOHN COURCIER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/15/82
ESTIMATED DATE OF START-UP--
(617)-223-4448 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER,WATER-COOLED, 3 EA.	600.00 T/D RDF EA				
		PM	0.0500 GR/DSCF 12% CO2		BACT
				ESP,3-STAGE	96.00
		SO2	0.3400 LB/MMBTU		BACT
			0.3000 % S BY WT, OIL		
				LOW S #2 FUEL OIL/LOW S RDF	
		NOX	0.5000 LB/MMBTU		BACT
				BOILER DESIGN	

NOTES ----------
ALL BACT LIMITS WERE DETERMINED SIMPLY BY TECHNOLOGY AVAILABLE AND THE ECONO NOMIC IMPACTS OF OTHER CONTROLS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1933

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- REFUSE INCINERATION 2360.00 T/D

COMPANY NAME/SITE LOCATION HOOKER ENERGY CORP. NIAGARA FALLS, NY
NIAGARA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NONE
DETERMINATION MADE BY EPA REGION II (AGENCY) BARRY TORNICK (AGENCY CONTACT PERSON) (212)-264-9579 (PHONE)
DATE OF PERMIT ISSUANCE-- 07/23/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RDF/COAL FIRED BOILERS	2360.00 T/D REFUSE				
		SO2	1.2000 LB/MMBTU COAL		
			0.8000 LB/MMBTU OIL		
				CONTRL METHOD: FUEL S CONTENT	
		NOX	0.7000 LB/MMBTU COAL		
			0.3000 LB/MMBTU OIL		
				CONTRL METHOD: TEMP & E.A.	
		PM	0.1000 LB/MMBTU COAL		
			0.0700 LB/MMBTU OIL		
		PM	0.0300 GR/DSCF REFUSE		
		VE	20.0000 % OPACITY COAL		BACT
			20.0000 % OPACITY OIL		
		VE	20.0000 % OPACITY REFUSE		BACT

NOTES ----------
COAL USE LIMITED TO 30 DAYS PER YEAR. COMBUSTION FUEL EMISSION LIMITS INTERPOLATED BASED ON FUEL MIXTURE RATIO.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- REFUSE INCINERATION

COMPANY NAME/SITE LOCATION KATY SEGHERS CLEARFIELD, UT

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY UTAH BAQ (AGENCY) DAVID KOPTA (AGENCY CONTACT PERSON) (801)-533-6108 (PHONE)

DATE OF PERMIT ISSUANCE-- 02/24/84
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR & BOILER, WASTE HEAT	500.00 T/D				
		PM	0.0250 GR/DSCF AT 12% CO2	ESP	BACT 98.00
		VE	20.0000 % OPACITY	ESP	BACT
		SO2	22.4000 LB/H	LIME SCRUBBER/INJECTION	BACT 50.00
		HCL	31.8000 LB/H	LIME SCRUBBER/INJECTION	BACT 50.00
		NOX	29.9000 LB/H	COMBUSTION CONTROL	BACT
		CO	35.5000 LB/H	COMBUSTION CONTROL	BACT
		F	1.1000 LB/H	ESP	BACT
		HG	0.1200 LB/H		BACT
		PB	0.2200 LB/H	ESP	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER UT-0032

SOURCE TYPE CODE 2.1

SOURCE TYPE/SIZE--- REFUSE INCINERATION 1000.00 T/D

COMPANY NAME/SITE LOCATION MCKAY BAY REFUSE-TO-ENERGY PROJECT TAMPA, FL 33602

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. AC 29-47277
DETERMINATION MADE BY FLORIDA DER (AGENCY) JOHN SVEC (AGENCY CONTACT PERSON) (904)-488-1344 (PHONE)

DATE OF PERMIT ISSUANCE-- 04/25/82
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MASS BURN FURNACES	1000.00 T/D WASTE				
		PM	0.0250 GR/DSCF AT 12% O2		LAER
				ESP	99.00
		VE			
				CONTINUOUS OPACITY MONITOR	

NOTES ----------
CONTINUOUS OPACITY MONITOR LIMITS TO BE DETERMINED DURING PERFORMANCE TESTING. FACILITY TO INCLUDE WASTE HEAT BOILERS ANDTURBINE ELECTRICAL GENERATORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- REFUSE INCINERATION 1000.00 T/D

COMPANY NAME/SITE LOCATION MCKAY BAY REFUSE-TO-ENERGY PROJECT TAMPA, FL 33602

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD FL-086
DETERMINATION MADE BY FLORIDA DER (AGENCY)
JOHN SVEC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/02/82
ESTIMATED DATE OF START-UP-- 1984
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MASS BURN FURNACES	1000.00 T/D WASTE				
		SO2	170.0000 LB/H	LOW SULFUR FUEL	
		NOX	300.0000 LB/H	COMBUSTION TECHNIQUE	
		VOC	9.0000 LB/H	COMBUSTION TECHNIQUE	
		PB	3.1000 LB/H	ESP	98.00
		F	6.0000 LB/H	NONE	
		HG	0.6000 LB/H	ESP	98.00
		BE	5.0000 G/D	ESP	

NOTES ----------
FACILITY DESIGN ALLOWS FOR FUTURE INSTALLATION OF A SCRUBBER SYSTEM; NSPS APPLIES TO THIS FACILITY. FURNACES-FOUR 250 TPD USIN G VOLUND TECHNOLOGY, WASTE HEAT BOILERS & TURBINE GENERATORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 600.00 T/D

COMPANY NAME/SITE LOCATION MUNICIPAL INCINERATOR PULASKI HWY PULASKI HIGHWAY BALTIMORE, MD 21237 BALTIMORE CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78MD-09
DETERMINATION MADE BY EPA REGION III (AGENCY) ED VOLLBERG (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/25/80
ESTIMATED DATE OF START-UP-- 1981
(215)-597-8990 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MUNICIPAL INCINERATOR	600.00 T/D MSW				
		PM	0.0300 GR/DSCF		SIP
			81.6000 T/YR		
				ESP	98.00
		SO2	35.1000 PPH		BACT
			154.0000 T/YR		
				PROPER COMBUSTION TECHNIQUES	
		CO	30.0000 PPH		BACT
			127.0000 T/YR		
				PROPER COMBUSTION TECHNIQUES	
		VOC	1.3000 PPH		BACT
			5.5000 T/YR		
				PROPER COMBUSTION TECHNIQUES	
		NOX	2.6000 PPH		BACT
			11.4000 T/YR		
				PROPER COMBUSTION TECHNIQUES	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 62.50 T/H WASTE

COMPANY NAME/SITE LOCATION NESWC RESOURCE RECOVERY FACILITY NORTH ANDOVER, MA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 029-121MA16
DETERMINATION MADE BY EPA REGION I (AGENCY) JOHN COURCIER (AGENCY CONTACT PERSON) (617)-223-4448 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/27/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATING UNITS, 2 INCIN*	750.00 T/D EA, WAS*				
		PM	0.0500	GR/DSCF AT 12% CO2	B/S
				ESP	98.66
		SO2	0.3400	LB/MMBTU	BACT
				LOW S FUEL - 0.3% S #2 OIL	
		NOX	0.3200	LB/MMBTU	BACT
				INCINERATOR DESIGN	
		CO	0.0700	LB/MMBTU	BACT
				INCINERATOR DESIGN	98.00
		SOX	0.0200	LB/MMBTU	BACT
				INCINERATOR DESIGN	
AUXILIARY BOILER, 1	19.60 MMBTU/H				
		NOX	0.1550	LB/MMBTU	BACT
				BOILER DESIGN	
		CO	0.0350	LB/MMBTU	BACT
				BOILER DESIGN	98.00
		SOX	0.0200	LB/MMBTU	BACT
				BOILER DESIGN	
		PM	0.1000	LB/MMBTU	B/S
		SO2	0.3400	LB/MMBTU	BACT
				LOW S FUEL - 0.3% S #2 OIL	

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

NOTES ----------
LIMITS ARE REDUCTION OVER AP-42 EMISSIONS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER MA-0004

SOURCE TYPE CODE 2.1

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- REFUSE INCINERATION 2010.00 T/D 3 UNITS

COMPANY NAME/SITE LOCATION N.E. MARYLAND WASTE DISPOSAL AUTHORITY
1801 OLD ANNAPOLIS ROAD
BALTIMORE, MD 21230
BALTIMORE CITY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 81MD01
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON) (215)-597-8186 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/10/81
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WATER WALL, 3 EA INCINERATOR	2010.00 T/D				
		SO2	335.0000 LB/H 1259.0000 T/YR		BACT
		CO	109.0000 LB/H 406.0000 T/YR		BACT
		NOX	227.0000 LB/H 999.0000 T/YR		BACT
		F	4.2000 LB/H 15.7000 T/YR		BACT

NOTES ----------
MARYLAND DEPT. OF HEALTH AND MENTAL HYGIENE PERFORMED LAER ANALYSIS FOR PARTICULATE MATTER. 0.019 GR/DSCF CORRECTED TO 12% CO IS BEING CONSIDERED (ESP).
EMISSION RATES BASED ON REFUSE CHARACTERISTICS. PERMITTEE IS TO PROVIDE PROCEDURES TO ENSURE ACCEPTABLE WASTE BEFORE OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- REFUSE INCINERATION 100.00 T/D SOLID WASTE

COMPANY NAME/SITE LOCATION REDDY CREEK IMPROVEMENT DIST
P.O. BOX 36
LAKE BUENA VISTA, FL 32830
ORANGE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-FL-044
DETERMINATION MADE BY FLORIDA DER (AGENCY)
ED PALAGYI (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP-- 1982
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SLAGGING PYROLYSIS INCIN.	100.00 T/D	CO	2.2600 LB/MMBTU 91.2000 LB/H	FLUE GAS MONITORING SYS.	BACT

NOTES ----------
SOURCE SHUT-DOWN 01/01/83 INDEFINITELY DUE TO OPERATIONAL ECONOMICS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

SOURCE TYPE/SIZE--- REFUSE INCINERATION 960.00 T/D RDF

COMPANY NAME/SITE LOCATION REFUSE FUELS, INC. LAWRENCE, MA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 023-121MA12
DETERMINATION MADE BY EPA REGION I (AGENCY) JOHN COURCIER (AGENCY CONTACT PERSON) (617)-223-4448 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/23/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE,WATER WALL, BALANCED DR*	960.00 T/D RDF				
		PM	0.0250 GR/DSCF		LAER
				ESP,5-FIELD,IN SERIES	98.00
		S	1.0000 % S OIL		BACT
			1.2000 LB/MMBTU RDF		
				LOW S #6 OIL/LOW S RDF	
		NOX	0.7000 LB/MMBTU RDF		BACT
			0.3000 LB/MMBTU OIL		
				BOILER DESIGN	

NOTES ----------
LAER REQUIRED ON TSP FOR NONATTAINMENT AREA IN LAWENCE. BACT ON SO2 DETERMINED BY TECHNOLOGY AND ECONOMICS. BACT ON NO2 DETERMINED BY MEETING NSPS LIMITS FOR FOSSIL FUEL BOLIERS.
1.2 LB/MMBTU EQUIV. TO 1.0 % S OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION 75.00 T/D 2 EA

COMPANY NAME/SITE LOCATION RESOURCES AUTHORITY GALLATIN, TN
SUMMER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY TENNESSEE APCD (AGENCY) MERVAT AHMED (AGENCY CONTACT PERSON) (615)-741-3651 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/01/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2 MUNICIPAL REFUSE BUR*	75.00 T/D EA	PM	0.0400 GR/SCF	SCRUB. & FABRIC FILTERS	NSPS 99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- REFUSE INCINERATION

COMPANY NAME/SITE LOCATION STEAM SUPPLY CORP. TULSA, OK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. T82-90
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) JIM VAN SANDT (AGENCY CONTACT PERSON) (918)-744-1000 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/16/82
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATORS, SOLID WASTE, 3 EA	230.00 T/D				
		PM	31.7000 LB/H	3 ESP'S, SEE NOTE #2	98.00
		SO2	17.5000 LB/H		
		NOX	46.0000 LB/H		
		VOC	3.5000 LB/H		
		CO	54.6000 LB/H		
		HG	0.2000 LB/H		

NOTES ----------
RATES ARE TOTAL EMISSIONS. 1)SIC CODES 4931 & 4961 ARE ALSO INVOLVED BECAUSE STEAM & ELECTRICITY WILL BE SOLD TO INDUSTRY.

2) PERFORMANCE STANDARDS OF 10% AVG. OPACITY (PER CLOCK HOUR) & 0.06 GR/DSCF CORRECTED TO 12% CO HAVE BEEN IMPOSED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- REFUSE INCINERATION 624.00 T/D

COMPANY NAME/SITE LOCATION TRANS ENERGY BROOKS, OR

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 24-5398
DETERMINATION MADE BY OREGON DEQ (AGENCY) WENDY SIMS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/19/83
ESTIMATED DATE OF START-UP-- 1987
(503)-229-5259 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR, SOLID WASTE, 2 EA	312.00 T/D				
		PM	0.0300	GR/DSCF AT 12% CO2	
			61.0000	T/YR	
				BAGHOUSE, OR ESP	
		NOX	94.0000	LB/H	
			290.0000	T/YR	
				EQUIPMENT DESIGN & OPERATION	
		HCL	23.0000	LB/H	
			69.0000	T/YR	
				SCRUBBER	80.00
		SO2	73.0000	LB/H	
			220.0000	T/YR	
				EQUIPMENT DESIGN & OPERATION	
		VE	10.0000	% OPACITY SEE NOTE	
		CO	55.0000	LB/H	
			170.0000	T/YR	
				EQUIPMENT DESIGN & OPERATION	
		HG	0.1700	LB/H	
			0.5100	T/YR	
				EQUIPMENT DESIGN & OPERATION	
		VOC	3.1000	LB/H	
			9.6000	T/YR	
				EQUIPMENT DESIGN & OPERATION	

PB	0.5200	LB/H
	1.6000	T/YR
		EQUIPMENT DESIGN & OPERATION
FLU*	1.6000	LB/H
	4.8000	T/YR
		EQUIPMENT DESIGN & OPERATION

NOTES ----------
NOT TO BE EXCEEDED FOR MORE THAN 3 MINUTES IN ANY ONE HOUR PERIOD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SEWAGE SLUDGE INCINERATION

COMPANY NAME/SITE LOCATION CITY OF L.A., HYPERION, BUREAU OF ENGIN* CITY HALL LOS ANGLES, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) NSR-4-4-9 LA-82-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) RICK SUGAREK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/30/82
ESTIMATED DATE OF START-UP--
(415)-974-8224 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE, 4, DIGESTER GAS FI*	8.00 MW EA				
		SO2	20.0000 PPM DRY BASIS		BACT
THERMAL PROCESSING WASTE HEAT R*				WET SCRUBBER	90.00
		SO2	20.0000 PPM DRY BASIS		BACT
			9.2000 LB/H		
				2 STAGE WET SCRUBBER/VENTURI SCRUB COUNTER CURRENT TRAY TOWER	
		HG	0.2890 LB/H		BACT
				2 STAGE WET SCRUBBER	
		BE	0.0000 LB/H		BACT
				FABRIC FILTER/2 STAGE WET SCRUBBER	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SEWAGE SLUDGE INCINERATION 360.00 T/D SLUDGE

COMPANY NAME/SITE LOCATION COUNTY SANITATION DISTRICTS OF L.A. COU* CARSON, CA
LOS ANGELES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. LA 83-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) JOE SLAMOVICH (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/13/84
ESTIMATED DATE OF START-UP--
(415)-974-8235 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMBUSTOR, FLUIDIZED	68.17 MMBTU/H				
		SO2	0.0600 LB/MMBTU	LIMESTONE INJECTION/SPRAY DRYER	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER SOLID WASTE DISPOSAL

COMPANY NAME/SITE LOCATION CREMATION SERVICES, INC.
1612 LEONARD ST. CLEVELAND, OH 44113

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 13-1217
DETERMINATION MADE BY CLEVELAND DAPC (AGENCY) IKE HABIB (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(216)-664-3508 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR, PATHOLOGICAL WASTE	800.00 LB/H				
		PM	0.5800 T/YR		
		VE	0.0000 % OPACITY		
		ODOR	NONE		

NOTES ----------
INCINERATOR BURN BODIES & INFECTIOUS WASTE FROM HOSPITALS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- OTHER SOLID WASTE DISPOSAL

COMPANY NAME/SITE LOCATION DELAWARE SOLID WASTE AUTHORITY WILMINGTON, DE NEW CASTLE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 79DE02
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/14/80
ESTIMATED DATE OF START-UP--
(215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
AIR CLASSIFIER		PM	7.7000 LB/H	BAGHOUSE	BACT 99.90
AIR CLASSIFIER		PM	7.7000 LB/H		BACT
DUST CONTROL SYS		PM	5.2000 LB/H		BACT
GLASS RECOVERY		PM	6.2000 LB/H		BACT
AIR KNIFE		PM	3.8000 LB/H		BACT
SECONDARY AIR CLASSIFER		PM	4.1000 LB/H		BACT
DRYER		PM	12.8000 LB/H		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- OTHER SOLID WASTE DISPOSAL

COMPANY NAME/SITE LOCATION DELAWARE SOLID WASTE II WILMINGTON, DE
NEW CASTLE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 79DE02 II
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/14/80
ESTIMATED DATE OF START-UP--
(215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DRYER		PM	0.4800 LB/H	BACT
DRYER		PM	1.0400 LB/H	BACT
BOILER		PM	0.0100 LB/H	BACT
BOILER		PM	0.0200 LB/H	BACT
HEATER		PM	0.0010 LB/H	BACT
VENTS, 3		PM	1.6000 LB/H	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[illegible] OTHER SOLID WASTE DISPOSAL 2000000.00 GAL

[illegible] LUBBOCK POOLATS, INC. , TX

LUBBOCK COUNTY

[illegible] DATE OF PERMIT ISSUANCE-- 02/16/83
[illegible] ESTIMATED DATE OF START-UP--
[illegible] TEXAS AIR (AGENCY) RALPH BOWLER (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[illegible]	[illegible] GAL			
[illegible]	[illegible] GAL	ODOR	SEE NOTE	
		ODOR		
[illegible]	[illegible] GAL		NIS COLLECT. IN FE SPOUNGE & PIPED TO CUSTOMER.	
		ODOR	SEE NOTE	

[illegible]
[illegible]

[illegible]

[illegible] INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

[illegible] TO NUMBER TX-0119 SOURCE TYPE CODE 2.3

APPENDIX -- DETAILED SOURCE LISTINGS

05/22/1984

[redacted] OTHER SOLID WASTE DISPOSAL 1440.00 T/D WOOD & WASTE

[redacted] MARTIN ENERGY SYS, INC. WILMINGTON, CA

[redacted] DATE OF PERMIT ISSUANCE-- 01/03/80
ESTIMATED DATE OF START-UP--
BOB BAKER (415)-974-8220
(AGENCY CONTACT PERSON) (PHONE)

[redacted] THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted] 1440.00 T/D			
	NOX	83.0000 LB/H	LAER
		COMBUSTION MODIFICATION	
	SO2	64.0000 LB/H	LAER
		WET SCRUBBER (CAUSTIC)	90.00
	PM	4.0000 LB/H	LAER
		BAGHOUSE	99.50

[redacted]

[redacted]

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

[redacted] ID NUMBER CA-0021 SOURCE TYPE CODE 2.3

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[redacted] 26.00 MW

[redacted] BERNICE LAKE, AK

[redacted]
DATE OF PERMIT ISSUANCE-- 08/06/82
ESTIMATED DATE OF START-UP-- 1982
(206)-442-1567
(PHONE)

[redacted]	MAXIMUM CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted]	26.00 MW			
		NOX	130.0000 LB/H	
			569.0000 T/YR	
			WATER INJECTION	
		PM	12.0000 LB/H	
			48.2000 T/YR	
			LOW S COAL,DISTILLATE OIL BACKUP	

[redacted]
[redacted] THE UNIT AND EMISSION LIMIT WAS BASED ON THE USE OF #2 DISTILLATE OIL. HOWEVER, TH
[redacted] BECAUSE OF LIMITED BACKUP CAPACITY AT THAT LOCATION,
[redacted]

[redacted]

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

[redacted] ID NUMBER AK-0005 SOURCE TYPE CODE 3.1

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION COLORADO INTERSTATE GAS LAKE STATION, KS

KEARNY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/19/82
ESTIMATED DATE OF START-UP--
(816)-374-6525
(PHONE)

EMISSIONS SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
G.E. MODIF. ENGINES, GAS-FIRED.*	1475.00 HP EA			
		NOX	760.0000 PPMV 15% O2, DRY BASIS OPERATE AT MAX EFFICIENCY	

NOTES ---

(*) INDICATES DATUM AND TOUNDATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

PAGE 5- 176 ID NUMBER KS-0013 SOURCE TYPE CODE 3.1

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[redacted]: [redacted]

[redacted]: EDWARD ZELLERBACH, INC. ANTIOCH, CA

[redacted]

[redacted] [redacted]

DATE OF PERMIT ISSUANCE-- 03/01/82
ESTIMATED DATE OF START-UP-- 1983

[redacted] (AGENCY) DOUG WOLF (AGENCY CONTACT PERSON) (415)-771-6000 (PHONE)

[redacted] TO TRADE PRODUCT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted]	32.00 Mw			
		NOX	42.0000 PPM NO2 AT 15% O2 WATER/STEAM INJECTION	
[redacted]	[redacted]			
		NOX	80.0000 PPM NO2 AT 3% O2 LO-NOX DESIGN	

[redacted]

[redacted]

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

[redacted]

ID NUMBER CA-0044

SOURCE TYPE CODE 3.1

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[redacted] NATURAL GAS TURBINES

[redacted] ESSO CHEMICALS, USA — PLAQUEMINE, LA

IBERVILLE PARISH

[redacted] DATE OF PERMIT ISSUANCE-- 11/14/83

[redacted] ESTIMATED DATE OF START-UP--

[redacted] LADEQ/EPA REGION VI — BHARAT CONTRACTOR — (504)-342-8940

(AGENCY) — (AGENCY CONTACT PERSON) — (PHONE)

[redacted]	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted] 100.00 MW		NOX	1194.0000 LB/H	COMB. CONTROL	N/A
		CO	66.0000 LB/H		
		VE	0.0000 % OPACITY		

NOTES

[redacted] ORIGINAL PERMIT PSD-LA-245 WAS ISSUED ON 08/11/81. SUBSEQUENT REVISION TO NSPS BY EPA ON 01/27/82 , 40CFR60, SUBPART GG, E

[redacted] FUELED TURBINES FROM STEAM INJECTION CONTROLS.

[redacted] ABBREVIATED INPUT AND TRUNCATED FOR PAGE TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

[redacted] ID NUMBER LA-0011A — SOURCE TYPE CODE 3.1

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[illegible] NATURAL GAS TURBINES 300.00 MW

[illegible] BETTY SEL., KERN RIVER COGENERATION PROJ. , CA

KERN COUNTY

[illegible]
[illegible]
[illegible] EPA REGION IX (AGENCY) MATT HAGER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/03/83
ESTIMATED DATE OF START-UP-- 1984
(415)-974-8209 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, GAS FIRED, W CO	825.00 MMBTU/H	CO	9.0000 PPM 17.0000 LB/H	PROPER COMBUSTION	

NOTES
1.) GAS TURBINE IS LIMITED TO NOX EMISSION OF 42 PPM & 140 LB/H BY A LOCAL NSR PERMIT. 2.) THE SOURCE HAS APPLIED FOR A MAJOR MODIFICATION TO INCREASE THE CO LIMIT WHEN FIRING ON DISTILLATE FUEL, THE STAND-BY FUEL.

[illegible] THROUGHPUT DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

[illegible]

ID NUMBER CA-0063

SOURCE TYPE CODE 3.1

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[illegible] NATURAL GAS TURBINES

[illegible] KISSIMMEE UTILITIES KISSIMMEE, FL

[illegible] IS ONLY FOR A NEW SOURCE.
[illegible] FLORIDA DER (AGENCY) TERESA HERON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/84
ESTIMATED DATE OF START-UP-- 1984
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[illegible]	402.80 MMBTU/H				
		NOX	79.0000 PPM GAS FIRED		
			129.0000 PPM OIL FIRED		
				WATER INJECTION	40.00
		SO2	0.5000 LB/MMBTU		
				FUEL S CONTENT	
		VE	20.0000 % OPACITY MAX		
[illegible]	41.70 MMBTU/H				
		SO2	0.5000 LB/MMBTU		
				FUEL S CONTENT	

[illegible]
[illegible] IS APPLICABLE. TURBINE EXHAUST GASES DISCHARGE INTO A WASTE HEAT BOILER. TOTAL ELECTRIC POWER GENERATED BY THE SY
[illegible] PERMITTED.

[illegible] DESIGNATED ENTER AND TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE FUEL/SIZE--- NATURAL GAS TURBINES 73.50 MW

COMPANY NAME/SITE LOCATION NEVADA PWR CO., CLARK STATION UNIT #7 EAST LAS VEGAS, NV

DETERMINATION IS BASIT FOR A MODIFIED SOURCE.
PERMIT NO. (REVISED) FILE NO.) NV 79-02
DETERMINATION MADE BY EPA REGION IX JIM HANSON (415)-974-8038
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

DATE OF PERMIT ISSUANCE-- 10/01/79
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GEN. GAS TURBINE	73.50 MW			
		NOX	0.3400 LB/MMBTU	
			WATER INJECTION	
		PM	0.0300 LB/MMBTU	
		CO	0.1200 LB/MMBTU	
		SO2		
			0.25% S FUEL CONTENT	

NOTES ---------
REGISTRATION IS SUBJECT TO NSPS.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

(A) S=-LISTED DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[redacted] NATURAL GAS TURBINES 73.50 MW

[redacted] NEVADA PWR CO., CLARK STATION UNIT #8 EAST LAS VEGAS, NV

[redacted] FOR A MODIFIED SOURCE.
[redacted] (REGION 9 FILE NO.) NV 80-01
[redacted] EPA REGION IX (AGENCY) LARRY BOWERMAN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/11/80
ESTIMATED DATE OF START-UP-- 1982
(415)-974-8213 (PHONE)

[redacted] TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted] COMBUSTION TURBINE	73.50 MW				
		NOX	0.3400 LB/MMBTU	WATER INJECTION	NSPS
		SO2	0.25% S FUEL OIL		BACT

[redacted]

[redacted] EXCESSIVE SWITCH HAS TRUNCATED FOR THIS TABLE.

[redacted]

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

[redacted] ID NUMBER NV-0005

SOURCE TYPE CODE 3.1

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION NORTHERN NATURAL GAS CUNNINGHAM, KS

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/12/82
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. RECIP. ENGINES, DUAL FUEL,*	2250.00 HP EA				
		NOX	60.0000 LB/H		
		CO	15.0000 LB/H		
		VOC	3.9000 LB/H		

NOTES ---------
IN CONSIDERATION OF TEST RESULTS. THE CO EMISSION LIMIT WAS CHANGED FROM 9 TO 15 LB/H ON NOV. 29, 1982.

(*) DESIGNATED DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE CO. ELKHART STATION, KS
MORTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)
DATE OF PERMIT ISSUANCE-- 11/18/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
C.E. RECIP. ENGINES, GAS FIRED,*	3200.00 HP EA	NOX	600.0000 PPMV 15% O2, DRY BASIS PRE-IGNITION CHAMBER	

NOTES ----------

INITIAL REVIEW POST STARTUP
(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION: PETRO-TEX CHEMICAL CORP. , TX
HARRIS COUNTY

DETERMINATION IS BASED ON A NOx SOURCE.
PERMIT NO. SEE NOTE
DETERMINATION MADE BY: TEXAS ACB (AGENCY) JIMMY RANDALL (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/21/82
ESTIMATED DATE OF START-UP-- 1983

PROCESS/OPD SUBJECT TO THIS PERMIT?	THROUGHPUT CAPACITY?	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, GAS	982.30 MSCFH				
		NOX	237.9000 LB/H	H2O INJECTION	NSPS
		SO2	0.7000 LB/H		
		CO	15.2500 LB/H		TECH

NOTES ----------
NOTE -- PERMIT NUMBERS 9190, 9200. EACH PERMIT COVERS ONE TURBINE.

INITIAL REVIEW POST STARTUP
(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. REVIEW STATUS: 05/04/1984

PAGE B- 149 SOURCE TYPE CODE 3.1

[redacted] NATURAL GAS PIPELINES 217.00 MMBTU/H

[redacted] PROCTOR & GAMBLE SACRAMENTO, CA

[redacted] DATE OF PERMIT ISSUANCE-- 05/10/83
[redacted] ESTIMATED DATE OF START-UP--
[redacted] EPA REGION IX
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted]	217.00 MMBTU/H			
		SO2	0.3000 # S BY WT	
		NOX	75.0000 PPM AT 3% O2, OIL	
			40.0000 PPM AT 3% O2, GAS	
			H2O INJECTION	
		CO	50.0000 LB/H GAS FIRED	
			22.0000 LB/H OIL FIRED	
[redacted]				
		NOX	0.1500 LB/MMBTU	
			LOW NOX BURNERS	
		CO	0.5000 LB/H	

[redacted]

INITIAL REVIEW POST STARTUP
[redacted] REVIEW STATUS:

[redacted] 30 REPORT CA-0147 SOURCE TYPE CODE 3.1

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 303.00 MHP

COMPANY NAME/SITE LOCATION PRUDHOE BAY CONSORTIUM PRUDHOE BAY, AK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-01
DETERMINATION MADE BY EPA REGION X (AGENCY) DAVID TETTA (AGENCY CONTACT PERSON) (206)-442-1193 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/29/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINES	303.00 MHP				
		NOX	150.0000 PPM	DRY CONTROLS	BACT
		CO	1.0900 LB/MMSCF FUEL	PROPER COMBUSTION	BACT
HEATERS	250.00 MMBTU/H				
		NOX	0.0800 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0100 LB/MMBTU	PROPER COMBUSTION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER AK-0004

SOURCE TYPE CODE 3.1

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 200.00 MW

COMPANY NAME/SITE LOCATION PUGET SOUND POWER & LIGHT FREDONIA, WA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-X-82-09
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON) (206)-442-1567 (PHONE)

DATE OF PERMIT ISSUANCE-- 08/23/82
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE, 2	100.00 MW EA				
		NOX	480.0000 LB/H		
			2061.0000 T/YR		
				WATER INJECTION	
		CO	185.0000 LB/H		
			645.0000 T/YR		
		SO2	640.0000 LB/H		
			154.0000 T/YR		
		PM	2.9000 LB/H		
			12.5000 T/YR		

NOTES ----------
THE NSPS LIMIT FOR NOX WAS THE BASIS FOR BACT. THE SO2 BACT LIMIT WAS BASED ON THE USE OF 0.5% S OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 1290.00 MW TOTAL

COMPANY NAME/SITE LOCATION SOUTHERN CALIF. EDISON CO. , CA
UPPER JOHNSON VALLEY SAN BERNARDINO COUNTY

DETERMINATION IS BACT
PERMIT NO. SE 81-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) MATT HABER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/25/83
ESTIMATED DATE OF START-UP--
(415)-974-8209 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE, 20	64.50 MW EA				
		SO2	0.0960	LB/MMBTU	
			71.4500	LB/H/TURBINE	
				USE OF VERY LOW SULFUR (0.1%) OIL	
		NOX	44.5000	PPM	
			140.0000	LB/H/TURBINE	
				WATER INJECTION	
		CO	17.0000	LB/H/TURBINE	
				PROPER COMBUSTION	
		PB	1.8000	PPM FUEL CONTENT	
		H2S*	0.1000	SULFUR FUEL OIL	
		ASB*	2.8500	LB/H/TURBINE	
				COMPL. W/TSP LIM. 10 LB/H,& SEMI-ANN. FUEL SAM*	
		HG	2.8500	LB/H/TURBINE	
				COMPL. W/TSP LIM. 10 LB/H,& SEMI-ANN. FUEL SAM*	

NOTES ----------
1) CONTINOUS MONITORS ARE REQUIRED FOR NOX, SO2, AND CO. 2) TURBINE CURRENTLY PLANNED FOR IS THE GE FRAME 7. 3) OPERTION IS LI
MITED TO 1500 HR/YR PER TURBINE. ALSO UNDER SOURCE CODES 3.2 & 3.3

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 3200.00 HP

COMPANY NAME/SITE LOCATION SW GAS STORAGE CO., PANHANDLE EAST. PIP* , KS
BROCHERS STATION
MEADE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON) (816)-374-6525 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/11/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINES, NAT. GAS FIRED, 5 IC R*	3200.00 HP EA	NOX	850.0000 PPM 15% O2 (D)		BACT

NOTES ----------
BORCHERS UNDERGROUND STORAGE FACILITY. (2-CYCLE, TURBO CHARGED ENGINES WITH STANDARD COMBUSTION CHAMBERS, DESIGNED TO OPERATE AT RELATIVELY LOW SPEED)

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 18500.00 HP

COMPANY NAME/SITE LOCATION TEXAS EASTERN TRANSMISSION CO. DELMONT, PA
WESTMORELAND COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 82PA02
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/07/82
ESTIMATED DATE OF START-UP-- 1982
(215)-597-2711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE	18500.00 HP				
		NOX	150.0000 PPM	NATURAL GAS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 88.00 MW

COMPANY NAME/SITE LOCATION TOSCO CORP. MARTINEZ, CA
CONTRA COSTA COUNTY

DETERMINATION IS
PERMIT NO. 5193
DETERMINATION MADE BY EPA REGION IX (AGENCY) MATT HABER (AGENCY CONTACT PERSON) (415)-974-8209 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/13/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, GAS, 2 EA	500.00 MMBTU/H			
		NOX	45.0000 PPM AT 15% O2	
			75.0000 LB/H	
			STEAM INJECTION	

NOTES ----------
TURBINES ARE GE FRAME 6 TURBINES. CEM REQUIRED FOR NOX. PRIMARY FUEL IS REFINERY FUEL GAS, SECONDARY FUEL IS PIPELINE GAS.

2.) ALSO SOURCE TYPE 5.6

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 8563.00 KW

COMPANY NAME/SITE LOCATION UNIVERSITY CO-GENERATION LTD., 1983-I BELLRIDGE OIL FIELD, CA

DETERMINATION IS FOR A NEW SOURCE.
PERMIT NO. 4133001
DETERMINATION MADE BY KERN COUNTY APCD (AGENCY) TOM PAXSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/21/84
ESTIMATED DATE OF START-UP--
(805)-861-3682 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, GAS & BOILER, WASTE HE*	8563.00 KW				
		NOX	714.0000 LB/D	H20 INJ., 0.9/1.0 W/F	65.00

NOTES ----------
EMISSION LIMITS MAY BE FIXED AT LOWER LEVEL UPON EMISSIONS TESTING - UNIT WILL OPERATE 24 H/D, 7 D/WEEK, 52 WEEK/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES 39.10 MW

COMPANY NAME/SITE LOCATION VULCAN MATERIALS CO. WICHITA, KS SEDGWICK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/23/81
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, SIMPLE-CYCLE, NAT. GAS	39.10 MW	NOX	SEE NOTE STEAM INJECTION	BACT

NOTES ----------
THE UNIT IS SUBJECT TO NSPS, SUBPART GG.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS TURBINES

COMPANY NAME/SITE LOCATION WARREN RED. CO. , CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 2023008
DETERMINATION MADE BY KERN COUNTY APCD (AGENCY) IVAN NEO (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/19/83
ESTIMATED DATE OF START-UP--
(805)-861-3682 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE, NATURAL GAS, 3 EA	2133.00 HP				
		NOX	69.0600 LB/D	CATALYTIC CONVERTOR	86.00

NOTES ----------
STATE FILE # A330-020

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 4000.00 BRAKE HP

COMPANY NAME/SITE LOCATION ALGONQUIN GAS TRANSMISSION CO. CROMWELL, CT

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 026-042CT01
DETERMINATION MADE BY EPA REGION I (AGENCY) JOHN COURCIER (AGENCY CONTACT PERSON) (617)-223-4448 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/05/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE,TURBINE COMPRESSION	40.00 BHP	NOX	0.0135 % BY VOL MANUFACTURER'S GUARANTEE	BACT

NOTES ----------
NSPS USED AS GUIDE, BUT MODIFICATION WAS NOT SUBJECT TO NSPS. BACT BASED ON MANUFACTURER'S GUARANTEE. LIMIT MEASURED AT 15% O2 DRY BASIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION ANR STORAGE CO. EXCELSIOR TWP, MI 49000
KALKASKA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 67-80
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) DAVID FERRIER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/01/80
ESTIMATED DATE OF START-UP-- 1981
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR, NAT. GAS, 2 EA	3750.00 HP				
		NOX	12.0000 G/HP-H	RETARDED IGNITION	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 03/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 20.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, CHEYENNE NEAR ROCKPORT, CO

WELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/12/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 ENGINES	5130.00 HP				
		NOX	39.2400 LB/H DESIGN		BACT
2 REC ENGINES	5130.00 HP				
		CO			BACT
		NOX	68.0000 LB/H DESIGN		BACT
2 REC ENGINES	12000.00 HP				
		CO			BACT
		NOX	158.6000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 20.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, DEERTRAIL , CO

ELBERT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/24/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE	6000.00 HP	CO			BACT
		NOX	79.3000 LB/H DESIGN		BACT
2 ENGINES	16000.00 HP	CO			BACT
		NOX	211.4000 LB/H DESIGN		BACT
GEN. ENGINE	425.00 HP	CO			BACT
		NOX	10.2000 LB/H DESIGN		BACT
HEATER	6.00 MMBTU/H	CO			BACT
		NOX	0.7600 LB/H		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER CO-0002

SOURCE TYPE CODE 3.2

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 66.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, FLANK NEAR LA JUNTA, CO
BACA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/24/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
H3 GLYCO REBOIL	8.00 MMBTU/H				
		NOX	8610.0000 SCFH		BACT
6 REC NG ENGS	13320.00 HP				
		NOX	83.1000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 44.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, KIT CARSON NEAR EADS, CO
CHEYENNE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/12/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, OPR	370.00 HP				
		NOX	8.9000 LB/H DESIGN		BACT
		CO			BACT
3 ENGINES	16000.00 HP				
		CO			BACT
		NOX	211.4000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 34.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, TOTEM/LONG , CO
ELBERT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/12/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
4 ENGINES	1340.00 HP	CO			BACT
		NOX	53.1600 LB/H DESIGN		BACT
6 ENGINES	2130.00 HP				
		CO			BACT
GENERATOR	370.00 HP				
		CO			BACT
2 HEATERS	16.00 MMBTU/H	NOX	8.9000 LB/H		BACT
		CO			BACT
6 ENGINES	8550.00 HP	NOX	2.5200 LB/H		BACT
		NOX	216.6000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983 INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 60.00 MHP

COMPANY NAME/SITE LOCATION CO INTERSTATE GAS, WATKINS NEAR WATKINS, CO

ADAMS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/12/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE	1350.00 HP				
		CO			BACT
		VOC			BACT
		NOX	17.8400 LB/H DESIGN		BACT
4 ENGINES	10800.00 HP				
		CO			BACT
		VOC			BACT
		NOX	142.7200 LB/H DESIGN		BACT
5 ENGINES	30000.00 HP				
		CO			BACT
		VOC			BACT
		NOX	396.5000 LB/H DESIGN		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER CO-0006

SOURCE TYPE CODE 3.2

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 1600.00 HP 2 EA

COMPANY NAME/SITE LOCATION CONSOLIDATED GAS SUPPLY CORP. , WV
HASTINGS COMPRESSOR STATION WETZEL COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 81WV01
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON) (215)-597-8186 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/14/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE	1600.00 HP	NOX	7.3300 G/SEC	NONE	BACT

NOTES ----------
RELOCATION OF TWO 1600 HP. COOPER BESSEMER I.C. ENGINES. THIS RELOCATION WASA MAJOR MODIFICATION TO THE COMPRESSOR STATION REC EIVING THE ENGINES. THE ENGINES WERE 16 YEARS OLD AND NATURAL GAS-FIRED. OPERATION LIMITED TO 5600 HRS./YR. CONSOLIDATED GAS SUPPLY CO. REQUESTED A MOD. OF PSD PERMIT FROM USEPA REGION 3 ON 01/11/83. MOD. OF PERMIT WOULD INVOLVE ALTER NATE METHOD OF OPER. OF COMPRESSOR ENGINES & AN INCREASE IN EMISSIONS OF NOX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION EL PASO NATURAL GAS CO., WASHINGTON RAN* WHITES CITY, NM

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NM-428
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	4500.00 HP	NOX	2.4500 G/HP-H COOPER ENERGY SERVICES	
ENGINE, I.C. COMPRESSOR	4500.00 HP	NOX	2.4500 G/HP-H COOPER ENERGY SERVICES	

NOTES ----------
STACK TEST PERFORMED ON THESE TWO ENGINES BUT NO REPORT RECIEVED YET.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION ENSERCH EXPLORATION CO. , TX
EASTLAND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-4051
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/28/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WHITE SUPERIOR 8G825	780.00 HP				
		NOX	7.7000 T/YR	CATALYTIC CONVERTER	90.00
		CO	5.5000 T/YR		
		VOC	0.7000 T/YR		

NOTES ----------
EMISSION LIMITS ARE 1.0 G/HP-H NOX, 0.75 G/HP-H CO, 0.1 G/HP-H VOC.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION GETTY OIL CO. SKELLYTOWN, TX

CARSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X3878
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/12/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SUPERIOR 126TA 'CLEAN BURN' ENG*	2000.00 HP				
		NOX	77.2000 T/YR	COMBUSTION CHAMBER MOD.	
		CO	115.8000 T/YR		
		VOC	8.4000 T/YR		

NOTES ----------
2.0 G/HP-H NOX, 3.0 G/HP-H CO, 0.2 G/HP-H VOC

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 200.00 MMSCFD

COMPANY NAME/SITE LOCATION LIQUID ENERGY CORP. , TX WISE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9153
DETERMINATION MADE BY TEXAS ACB (AGENCY) KAREN HORNE (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)
DATE OF PERMIT ISSUANCE-- 11/10/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE ENGINE COMPRESSOR, 2 EA	3200.00 HP				
MEP-8 RECIPROCATING ENGINE COMP*	2000.00 HP	NOX	1.7500 G/HP-H		
		NOX	4.0000 G/HP-H	TURBOCHARGERS	

NOTES ----------
THE EFFECTIVENESS OF TURBOCHARGERS HAS NOT BEEN PROVEN BY PERFORMANCE TESTING YET.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION LLANO, INC. NEAR HOBBS, NM

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NM-477
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/22/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION ... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN
ENGINE, I.C. COMPRESSOR	1100.00 HP	NOX	2.2000 G/HP-H	NEW DESIGN

NOTES ----------
STACK TESTS, EPA REF. METHOD 7, WERE PERFORMED ON TWO OF THE ABOVE MENTIONED FIVE ENGINES & THE ACTUAL EMISSIONS WERE 0.38 G/HP-H & 1.34 G/HP-H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 4000.00 HP 2 EA

COMPANY NAME/SITE LOCATION MICHIGAN WISCONSIN PIPE LINE CO. CHARLTON TOWNSHIP, MI 49000
OTSEGO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 660-80
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) GREGORY EDWARDS (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)
DATE OF PERMIT ISSUANCE-- 11/01/80
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR, NAT. GAS, 2 EA	4000.00 HP				
		NOX	12.3000 G/HP-H	COMBUSTION MODIFICATIONS	

NOTES ----------
2 NATURAL GAS COMPRESSORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 1669.00 HP

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE CO.
COGNAC STATION , KS
GRANT COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/28/80
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. RECIP. ENGINE, UNIT#3	1669.00 HP	NOX	700.0000 PPM 15% O2 (D)	PRE-IGNITION CHAMBER	BACT

NOTES ----------
IF CONSTRUCTION COMMENCES PRIOR TO JANUARY/1982, THE UNIT WILL NOT BE SUBJECT TO PROPOSED SUBPART FF OF THE NSPS REGS. THE PER MIT, HOWEVER, INCORPORATES SEVERAL PROVISIONS OF PROPOSED SUBPART FF AS PERMIT CONDITIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 18.00 MHP

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE-FRED. , CO
WELD COUNTY

DETERMINATION IS BACT
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/25/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REC COMP ENG	4500.00 HP				
		CO			BACT
		VOC			BACT
		NOX	5.5000 G/HP-H		BACT
				ENG MODS	55.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983 INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 13746.00 HP

COMPANY NAME/SITE LOCATION PANHANDLE EAST., FT. LUPTON , CO
WELD COUNTY

DETERMINATION IS BACT
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/29/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REC COMP ENG, 3	2246.00 BRAKE HP EA	NOX	55.0000 LB/H EA	ENG DESIGN & MODIFICATINS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER CO-0011

SOURCE TYPE CODE 3.2

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO. , TX
WINKLER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-3903
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/15/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WAUKESHA 6LRZB-9	220.00 HP				
		NOX	23.4000 T/YR	EQUAL NOX-CO CARBURETOR SETTING	
		CO	23.4000 T/YR		
		VOC	4.5000 T/YR		
SUPERIOR 8G825	585.00 HP				
		NOX	62.1000 T/YR		
		CO	62.1000 T/YR		
		VOC	5.4000 T/YR		

NOTES ----------
RICH-BURN GAS ENGINES LESS THAN 825 HP DO NOT REQUIRE CATALYTIC CONVERTER CONTROL. EMISSIONS AT 11G NOX/HP-H, 11G CO/HP-H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION SANTA FE ENERGY , CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 0951
DETERMINATION MADE BY VENTURA COUNTY (AGENCY) KEITH DUVAL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/02/82
ESTIMATED DATE OF START-UP--
(805)-654-2664 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR, NATURAL GAS	180.00 HP	NOX	150.0000 PPM		

NOTES ----------
STATE FILE # A330-030

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 2000.00 HP EA

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS
P.O. BOX 2563
BIRMINGHAM, AL 35202
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-AL-055
DETERMINATION MADE BY ALABAMA APCD (AGENCY)
SUE ROBERTSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/29/80
ESTIMATED DATE OF START-UP--
(205)-834-6570 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VERT COMPRESSOR ENGINES, 3 EA	6000.00 HP	NOX	16.5000 GM/HP-H	COMBUSTION CONTROL	BACT

NOTES ----------
THREE UNITS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 4000.00 HP

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS
P.O. BOX 68
GALLION, AL 36742
HALE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-AL-074
DETERMINATION MADE BY ALABAMA APCD (AGENCY)
SUE ROBERTSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/04/81
ESTIMATED DATE OF START-UP-- 1982
(205)-834-6570 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VERTICAL COMPRESSOR ENGINE	4000.00 BRAKE HP	NOX	15.0000 G/HP-H	EQUIPMENT OPERATION	

NOTES ----------
MANUFACTURER EMISSION TEST

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 5000.00 BRAKE HP

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS
P.O. BOX 67
ELMORE, AL 36025
ELMORE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-AL-075
DETERMINATION MADE BY ALABAMA APCD (AGENCY) SUE ROBERTSON (AGENCY CONTACT PERSON) (205)-834-6570 (PHONE)
DATE OF PERMIT ISSUANCE-- 06/04/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VERTICAL COMPRESSOR ENGINE	5000.00 BRAKE HP	NOX	15.0000 G/HP-H	EQUIPMENT OPERATION	BACT

NOTES ----------
MANUFACTURER EMISSION TEST

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 15500.00 HP

COMPANY NAME/SITE LOCATION TENNESSEE GAS PIPELINE CO. MARIONVILLE, PA

FOREST COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 27-399-001
DETERMINATION MADE BY PENNSYLVANIA BAQ, DER (AGENCY) WILLIAM CHARLTON (AGENCY CONTACT PERSON) (814)-724-8530 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/01/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS COMPRESSOR	15500.00 HP	NOX		LEAN BURN PROC./AIR-FUEL RATIO ADJUST.	PSD

NOTES ----------
EXISTING CAPACITY IS 11500 HP. PROPOSED ADDITIONS ARE 4000 HP. TOTAL CAPACITY WILL BE 15500 HP.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 2250.00 HP

COMPANY NAME/SITE LOCATION TRANSCONTINENTAL GAS PIPELINE CORP. GILLIS, LA
BEAUREGARD PARISH

DETERMINATION IS BACT
PERMIT NO. PSD-LA-506
DETERMINATION MADE BY LAQD/EPA REGION VI (AGENCY) HARENDRA RAOL (AGENCY CONTACT PERSON) (504)-342-8940 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/14/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, RECIPROCATING COMPRESSOR	2250.00 HP	NOX	29.7000 LB/H	CLEAN BURN ENGINE, MOD. COMB. W/CONTRLS	55.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., BITTER LAKE * NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-274-M-2
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/23/82
ESTIMATED DATE OF START-UP--
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1596.00 HP	NOX	4.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS - 2.96 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER NM-0013A

SOURCE TYPE CODE 3.2

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., BITTER LAKE * NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-274-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1050.00 HP	NOX	5.0000 G/HP-H LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS - 2.42 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., ISLER NO. 1 * NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NM-464
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/08/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1588.00 HP	NOX	4.0000 G/HP-H LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, -- RESULTS - 2.06 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., KEMNITZ STAT* NEAR MALJAMAR, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-399-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1072.00 HP	NOX	5.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, -- RESULTS - 4.15 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-411-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1596.00 HP	NOX	4.0000 G/HP-H LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 3.58 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-412-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUSHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1073.00 HP	NOX	5.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 2.4 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-413-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1588.00 HP	NOX	4.0000 G/HP-H LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 2.51 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1993

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-414-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY)
SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	2647.00 HP				
		NOX	4.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 0.82 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., RED BLUFF ST* NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-415-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS ... & BASIS CONTROL EQUIPMENT OR PROCESS MODIFICATION ... PCT EFF
ENGINE, I.C. COMPRESSOR	2585.00 HP	NOX	5.0000 G/HP-H LOW NOX ENGINE

NOTES ----------
STACK TEST PERFORMED, EPA REF. METHOD 20, RESULTS -- 3.2 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION TRANSWESTERN PIPELINE CO., MALJAMAR STAT* NEAR MALJAMAR, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-387-M-1
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/03/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	1073.00 HP	NOX	5.0000 G/HP-H	LOW NOX ENGINE	

NOTES ----------
STACK TEST PERRFORMED, EPA RREF. METHOD 20, -- RESULTS - 3.93 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER NM-0011

SOURCE TYPE CODE 3.2

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS 3000.00 HP

COMPANY NAME/SITE LOCATION VALERO TRANSMISSION CO. OLD OCEAN, TX

BRAZORIA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-3603
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/09/82
ESTIMATED DATE OF START-UP-- 1982
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS COMPRESSORS, 3	1000.00 HP EA				
		NOX	34.8000 T/YR		
		CO	64.4000 T/YR		
		VOC	0.7000 T/YR		

NOTES ----------
GAS TURBINES INHERENTLY CLEAN-BURNING WITH RESPECT TO NOX EMISSIONS. EMISSIONS OF NOX BASED ON 1.2 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS COMPRESSORS

COMPANY NAME/SITE LOCATION WESTAR TRANSMISSION CO. , TX

POTTER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-3990
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/07/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SUPERIOR 8GTLA	1100.00 HP				
		NOX	21.2000 T/YR	COMBUSTION CHAMBER MODIFICATION	
		CO	21.2000 T/YR		
		VOC	7.9000 T/YR		

NOTES ----------
EMISSION LIMITS ARE 2.0 G/HP-H NOX, 2.0 G/HP-H CO, 0.75 G/HP-H VOC.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION ARGO PETROLEUM, FERNDALE LEASE , CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 0380
DETERMINATION MADE BY VENTURA COUNTY (AGENCY) KEITH DUVAL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/30/83
ESTIMATED DATE OF START-UP--
(805)-654-2664 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE, NATURAL GAS	200.00 HP	NOX	50.0000 PPM CATALYTIC REDUCTION	96.70

NOTES ----------
STATE FILE # A330-031

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 540.00 MW

COMPANY NAME/SITE LOCATION CAJUN ELECT. POWER COOP. NEW ROADS, LA
POINTE COUPE PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-062
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/78
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, COAL FIRED	540.00 MW	SO2		
			LOW SULFUR WESTERN COAL	
		PM		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 6000.00 KW

COMPANY NAME/SITE LOCATION CITY OF AUGUSTA (MUNICIPAL ELECT. SYS, PLANT *) AUGUSTA, KS BUTLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/29/81
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DUAL FUEL ENGINE, GEN. UNIT #10	6000.00 KW				
		NOX	1150.0000 PPM 15% O2 (D)		TEST
		SO2		FUEL STANDARD	NAAQ
				FUEL OIL S CONTENT-0.7% BY WT.	
		CO			NAAQ

NOTES ----------
THE UNIT WILL NOT BE SUBJECT TO PROPOSED SUBPART FF OF THE NSPS REGULATIONS, WHEN PROMULGATED. THE PERMIT, HOWEVER, INCORPORATES SEVERAL PROVISIONS (E.G., PERFORMANCE TEST PROCEDURES, MONITORING OF EMISSIONS, ETC.) OF PROPOSED SUBPART FF AS PERMIT CONDITIONS. TEST DATA USED TO SET NOX STANDARD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 18611.00 HP

COMPANY NAME/SITE LOCATION CITY OF KINGMAN
P.O. BOX 168
KINGMAN, KS 67068
KINGMAN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) CHARLES WHITMORE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/01/83
ESTIMATED DATE OF START-UP-- 1983
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
IC ENGINE, DUAL FUEL, UNIT 8	3495.00 HP			
		NOX	1150.0000 PPMV, 15% O2, DRY	BACT
			EFFICIENT OPERATION OF THE UNIT	

NOTES ----------
THE UNIT, A COOPER-BESSEMER MODEL LSV-12-GDT, WAS PREVIOUSLY OPERATED SINCE 1963 BY ANOTHER MUNICIPAL UTILITY. TO ENSURE THAT SO2 EMISSIONS WILL NOT INCREASE BY A "SIGNIFICANT" AMOUNT,
THE AMOUNT OF DISTILLATE FUEL OIL WHICH MAY BE COMBUSTED IS LIMITED TO 10% OF THE TOTAL ANNUAL HEAT INPUT FOR THE UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 16624.00 HP (TOTAL, TO BE AD*

COMPANY NAME/SITE LOCATION CITY OF OTTAWA OTTAWA, KS

FRANKLIN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/02/80
ESTIMATED DATE OF START-UP-- 1980
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECIP. ENGINES, 2 DUEL-FUEL IC,*	6000.00 KW EA				
		NOX	1150.0000 PPM 15% O2 (D)		BACT
		SO2		FUEL STANDARD	
				S IN FUEL LIM. TO 0.5% BY WT.	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 90.00 MW

COMPANY NAME/SITE LOCATION EMPIRE DIST. ELECT. CO.
LARUSSELL STATION , MO
LAWRENCE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/07/81
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMBUSTION TURBINE, SIMPLE-CYC,*	1056.00 MMBTU/H (MA*				
		NOX	230.0000 PPMV, 15% O2, (ISO)-STAND. DAY COND.	DESIGN	BACT
		CO	56.0000 LB/H		BACT
			21.0000 PPMV		
		SO2		FUEL STANDARD	
				SEE NOTE	

NOTES ----------
THE UNIT IS NOT SUBJECT TO NSPS, SUBPART GG. THE % S CONTENT OF THE FUEL TO BE BURNED IN UNIT 2 IS LIMITED BY PERMIT CONDITION S TO 0.8%, BY WT. THE NOX AND CO/BACT LIMITS WERE DERIVED FROM INFO. PROVIDED BY THE TURBINE MANUFACTURER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 252.00 MW

COMPANY NAME/SITE LOCATION FLORIDA POWER AVON PARK, FL 33733

HIGHLANDS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. FL 017
DETERMINATION MADE BY FLORIDA DER (AGENCY) ED PALAGYI (AGENCY CONTACT PERSON) (904)-488-1344 (PHONE)

DATE OF PERMIT ISSUANCE-- 01/21/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE PEAKING UNITS, 4 EA	63.00 MW EA				
		SO2	379.0000 LB/H EA 284.0000 T/YR	0.5% S FUEL OIL	BACT
		NOX	250.0000 LB/H 167.0000 T/YR	WATER INJECTION	NSPS
		CO	86.0000 LB/H 64.0000 T/YR	CONTROLLED COMBUSTION	BACT

NOTES ----------
MAXIMUN 1500 HRS OPERATION PER YEAR FOR EACH TURBINE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 01/25/1984

ID NUMBER FL 0017

SOURCE TYPE CODE 3.3

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION GENERAL MOTORS CORP., PROVING GROUNDS MILFORD, MI

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27-84
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) KENNETH TERRY (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/14/84
ESTIMATED DATE OF START-UP-- 1983
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DYNAMOMETER, CAR/TRUCK TESTING		VE	20.0000 % OPACITY	FILTER TOWER, SEE NOTE	

NOTES ----------
ONLY BEING USED WHEN 5 OR MORE ENGINES ARE SIMULTANEOUSLY RUNNING OR AN OPACITY PROBLEM EXISTS, OR APPROXIMATELY 1/2 HR PER DA
Y & 3 1/2 HR PER WEEK.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 2672.00 MMBTU/H

COMPANY NAME/SITE LOCATION GULF STATES UTILITY
13 MI. S. BATON ROUGE BATON ROUGE, LA
IBERVILLE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-292
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/30/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMBUSTION TURBINE(2)	1336.00 MMBTU/H				
		SO2	5.5000 LB/H 0.0040 LB/MMBTU GAS	NATURAL GAS FIRING	NSPS
		NOX	334.0000 LB/H 0.2500 LB/MMBTU GAS	STEAM/WATER INJECTION	NSPS
		CO	125.0000 LB/H 0.0900 LB/MMBTU GAS	COMBUSTION CONTROLS	BACT
		PM	1.0000 LB/H 0.0010 LB/MMBTU GAS	NATURAL GAS FIRING	BACT
		SO2	296.0000 LB/H 0.2200 LB/MMBTU OIL	.28% S. FUEL OIL	NSPS
		NOX	362.0000 LB/H 0.2700 LB/MMBTU OIL	STEAM/WATER INJECTION	NSPS
		CO	216.0000 LB/H 0.1600 LB/MMBTU OIL	COMBUSTION CONTROLS	BACT

PM	33.0000 LB/H		BACT
	0.0250 LB/MMBTU OIL		
	.1% ASH FUEL OIL		

NOTES ----------
TWO COMBUSTION TURBINES ARE PERMITTED TO FIRE EITHER NATURAL GAS OR FUEL OIL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 100.00 MW

COMPANY NAME/SITE LOCATION GULF STATES UTILITY
6 MI WNW OF LAKE CHARLES LAKE CHARLES, LA
CALCASIEL PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-294
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/22/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE	1396.00 MMBTU/H				
		SO2	0.3500 LB/MMBTU OIL		NSPS
			0.0010 LB/MMBTU GAS		
				LOW SULFUR OIL (0.46%)	
		NOX	0.2600 LB/MMBTU OIL		NSPS
			0.2500 LB/MMBTU GAS		
				WATER/STEAM INJECTION	60.00
		CO	0.1600 LB/MMBTU OIL		BACT
			0.0900 LB/MMBTU GAS		
				EFFICIENT DESIGN	
		PM	0.0900 LB/MMBTU OIL		BACT
			0.0010 LB/MMBTU GAS		
				LOW ASH OIL (0.1%)	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 23.30 MKW

COMPANY NAME/SITE LOCATION HOFFMANN-LAROCHE, INC.
MANUNKACHUNK AVENUE
BELVIDERE, NJ 07823
WARREN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) LARRY KARAS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/17/81
ESTIMATED DATE OF START-UP--
(212)-264-9538 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIESEL ENGINE, W/WASTE HEAT BOI*	23.30 MKW	NOX	2272.0000 T/YR	WASTE HEAT BOILER RETARD. FUEL INJ. TIMING	NSPS

NOTES ----------
SPECIFIC LIMITATIONS IN TERMS OF CAPACITY SHALL BE MET (AS PERMIT CONDITIONS) FOR THE OPERATION OF THE DIESEL COGENERATION FAC
ILITY IN COMBINATION WITH SOME OF THE FIVE EXISTING BOILERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION KILN-GAS R & D INC. WOOD RIVER, IL

MADISON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 82 07 0021
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, COAL GAS FIRED					
		SO2	150.0000 PPM	PURIFICATION OF PRODUCT GAS	NSPS
		NOX	75.0000 PPM	PURIFICATION OF PRODUCT GAS	NSPS
		CO	290.0000 LB/H	EQUIPMENT DESIGN	

NOTES ----------
TURBINE IS TO BE USED IN A 3 YR EXPERIMENTAL PROGRAM IN ASSOCIATION WITH A 600 TON PER DAY COAL GASIFICATION DEMONSTRATION PRO
JECT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION MUNICIPAL GENERATING PLANT BELOIT, KS

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE-GENERATOR	6000.00 KW	NOX	1150.0000	PPMV 15% O2, DRY BASIS	
		SO2		FUEL STANDARD	
				S CONTENT LIM. TO 0.7% BY WT.	
		CO			

NOTES ----------
TEST DATA USED TO ESTABLISH NOX STANDARD

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 250.00 MW

COMPANY NAME/SITE LOCATION NEVADA PWR CO./REID GARDNER STATION MOAPA, NV

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) NV 79-03
DETERMINATION MADE BY EPA REGION IX (AGENCY) JIM HANSON (AGENCY CONTACT PERSON) (415)-974-8038 (PHONE)

DATE OF PERMIT ISSUANCE-- 01/03/80
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GENERATOR	250.00 MW				
		SO2	0.2900 LB/MMBTU	WET SCRUBBER	85.00
		NOX	0.5000 LB/MMBTU SB. COAL 0.6000 LB/MMBTU BIT. COAL	PROPER BOILER DESIGN & OPER.	
		PM	0.0300 LB/MMBTU	BAGHOUSE	99.60

NOTES ----------
ALL EMISSION LIMITS ARE BASED ON: NSPS, AND BACT DETERMINED BY TECHNOLOGY ANDECONIMICS. ADDITION OF GENERATOR TO AN EXISTING F
ACILITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:	INITIAL REVIEW	POST STARTUP
	04/01/1983	02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 4.20 MMCF/YR

COMPANY NAME/SITE LOCATION ORGANIC FUEL PRODUCTION, INC. , TX
LUBBOCK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-4141
DETERMINATION MADE BY TEXAS ACB (AGENCY) GARY WALLIN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/16/83
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIGESTERS, 7	4.20 MMCF/YR				
		PM	0.0100 T/YR		
		SO2	0.0020 T/YR	IRON SPONGE	
		NOX	0.2100 T/YR		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 160.00 MHP

COMPANY NAME/SITE LOCATION PRUDHOE BAY CONSORTIUM PRUDHOE BAY, AK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-13
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON) (206)-442-1193 (PHONE)
DATE OF PERMIT ISSUANCE-- 12/17/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS TURBINE, 10	16.00 MHP EA				
		NOX	150.0000 PPM	DRY CONTROLS	BACT
		CO	109.0000 LB/MMSCF FUEL	MONTGOMERY PROPER COMBST. COND.	BACT
GAS HEATERS					
		NOX	0.0800 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0180 LB/MMBTU	MONTGOMERY PROPER COMBST. COND.	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION SEA WORLD, INC.
1720 SOUTH SHORES RD.
SAN DIEGO, CA 92109

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 7801
DETERMINATION MADE BY SAN DIEGO APCD (AGENCY)
GUS ANDERSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/11/82
ESTIMATED DATE OF START-UP-- 1981
(619)-565-3925 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. PISTON ENGINE	7.10 MMBTU/H	NOX	1.8000 LB/MMBTU SEE NOTE	SINGLE STAGE CATALYTIC CONVERT.	
		CO	1.5000 LB/MMBTU SEE NOTE	SINGLE STAGE CATALYTIC CONVERTER	

NOTES ----------
COGENERATION UNIT CONSISTING OF 930 BHP I.C. PISTON ENGINE, NATURAL GAS FUELED, 630 KW ELECTRIC GENERATOR AND EQUIPPED FOR WAS TE HEAT RECOVERY.
BEFORE USING THE EMISSION UNITS SHOWN, THE SAN DIEGO AGENCY SHOULD BE CONTACTED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION

COMPANY NAME/SITE LOCATION SEA WORLD, INC.
1720 SOUTH SHORES RD. SAN DIEGO, CA 92109

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 8134
DETERMINATION MADE BY SAN DIEGO APCD (AGENCY) GUS ANDERSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/12/83
ESTIMATED DATE OF START-UP-- 1983
(619)-565-3925 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. PISTON ENGINE	7.10 MMBTU/H				
		NOX	0.2480 LB/MMBTU	2 STAGE CATALYTIC CONVERT.	90.00
		CO	0.2300 LB/MMBTU	2 STAGE CATALYTIC CONVERTER	90.00

NOTES ----------
COGENERATION UNIT CONSISTING OF 930 BHP I.C. PISTON ENGINE, NATURAL GAS FUELED, 630 KW ELECTRIC GENERATOR AND EQUIPPED FOR WAS
TE HEAT RECOVERY. PERMIT PENDING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 40.00 MW

COMPANY NAME/SITE LOCATION SEBRING UTILITIES COMMISSION
368 S. COMMERCE AVE. P.O. BOX* SEBRING, FL 33870
HIGHLANDS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-FL-071
DETERMINATION MADE BY FLORIDA DER (AGENCY)
ED PALAGYI (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/03/81
ESTIMATED DATE OF START-UP-- 1983
(904)-488-1344 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIESEL ENGINES	19.53 MW EA				
		NOX	819.0000 PPMV	COMBUSTION CONTROL	NSPS
		SO2	2.6700 LB/MMBTU	2.5% SULFUR OIL	BACT
		PM	0.1000 LB/MMBTU	COMBUSTION CONTROL	BACT
		CO	0.5750 LB/MMBTU	EQUIPMENT OPERATION	NSPS
		VOC	0.2600 LB/MMBTU	EQUIPMENT OPERATION	NSPS

NOTES ----------
HUGE SLOW-SPEED RECIPROCATING INTERNAL COMBUSTION ENGINES TO DRIVE ELECTRICAL GENERATORS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 01/25/1984

ID NUMBER FL-0025

SOURCE TYPE CODE 3.3

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 27.50 MMCFD

COMPANY NAME/SITE LOCATION SHELL OIL CO. NEAR MCCAMEY, TX

UPTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-360
DETERMINATION MADE BY EPA REGION VI (AGENCY) BILL TAYLOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/27/81
ESTIMATED DATE OF START-UP-- 1981
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINES, RECIPROCATING FUE*	1215.00 HP	NOX	10.0000 G/HP-H	DERATED OLD ENGINES	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- OTHER INTERNAL COMBUSTION 12000.00 KW

COMPANY NAME/SITE LOCATION TRENTON DISTRICT ENERGY CO.
S. WARREN BET. LIVINGSTON & F* TRENTON, NJ
MERCER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) LARRY KARAS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/29/81
ESTIMATED DATE OF START-UP--
(212)-264-9538 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIESEL ENGINES, W/2 SUP. FIRED *	6.00 MKW EA				
		PM	71.0000 T/YR	SUPPLEMENTARY FIRED BOILERS PROPER COMBST. OF EXAUST GASES	
		SO2	482.0000 T/YR	LOW SULFER FUEL LOW SULFUR FUEL	SIP
		NOX	1869.0000 T/YR	USE OF MANUFACT. ENG. MOD.	DESI

NOTES ----------
GOOD COMBUSTION PRACTICE & USE OF LOW SULFUR FUEL OIL, 0.5% BY WT., & USE OF NATURAL GAS AS AVAILABLE,ARE REQUIRED FOR WASTE H
EAT BOILERS. BASIS FOR PM CONTROL IS CONTROL EQUIPMENT.
BASIS FOR PM CONTROL IS CONTROL EQUIPMENT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION BALL METAL CONTAINER GROUP EAST FINDLAY, OH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 03-1025
DETERMINATION MADE BY OHIO EPA NWD (AGENCY) DON WALTERMEYER (AGENCY CONTACT PERSON) (419)-352-8461 (PHONE)

DATE OF PERMIT ISSUANCE-- 04/10/81
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
EXTERIOR BASE OPERATION	300.00 MM CANS/LIN*	VOC	0.3600 KG/L COATING SOLIDS	THERMAL INCINERATOR	NSPS 85.00
INTERNAL COAT	300.00 MM CANS/LIN*	VOC	0.5400 LB/GAL COATING MINUS H2O		BACT

NOTES ----------
PERMIT REQUIRES THAT VOC EMISSIONS SHALL NOT EXCEED ANY NSPS LIMITS APPLICABLE TO BEVERAGE CAN SURFACE COATING. IT REQUIRES TH
E SOURCE TO NOTIFY OF 1) CONSTRUCTION DATE, 2) ANTICIPATED STARTUP DATE, 3) ACTUAL STARTUP DATE, AND 4) DATE
OF PERFORMANCE TESTING

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION CONTINENTAL CAN CO., USA PLANT #82 WEST CARROLLTON, OH

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 0857101741
DETERMINATION MADE BY REGIONAL APCA (AGENCY) JAMES GROSS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/01/83
ESTIMATED DATE OF START-UP-- 1983
(513)-225-4435 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
END SEAM COMPOUND	4.70 GAL/H	VOC	3.0900 LB/GAL COMPOUND, MINUS H2O 38.1600 T/YR	TECH

NOTES ----------
PHASED INSTALLATION OF 4 LINES, 4 MACHINES EA., WILL OCCUR IN A 6 MONTH PERIOD. IN APRIL, 1984, CONTINENTAL CAN WILL BEGAIN EM
PLOYING A NEW END SEAM COMPOUND
WHICH WILL BE COMPOSED OF A VOC CONTENT LESS THAN 3.09 LB/GAL, MINUS WATER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION EVANS COOPERAGE CO., INC. TULSA, OK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. T82-31
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) JIM VAN SANDT (AGENCY CONTACT PERSON) (918)-744-1000 (PHONE)

DATE OF PERMIT ISSUANCE-- 05/04/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HAND SPRAY DRUM PAINTING	72.00 DRUMS/H	VOC	15.6800 LB/H	HIGH SOLIDS PAINT,43.9% SOLIDS	12.90

NOTES ----------
1) VOC REDUCTION IN PAINTS BACT BECAUSE OF ECONOMIC FACTOR. ANY OTHER CONTROLS WOULD HAVE COST 50% OF THE TOTAL INVESTMENT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS 600.00 MM CANS/YR

COMPANY NAME/SITE LOCATION MILLER BREWING CO. MOULTRIE, GA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 3411-035-6906-C
DETERMINATION MADE BY GEORGIA EPD (AGENCY) HAI CHANG (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/02/79
ESTIMATED DATE OF START-UP-- 1981
(404)-656-6900 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BASE COATING	298.00 T/YR	VOC	1.8500 LB/GAL COATING MINUS H2O	LOW SOLVENT COATING	
INTERIOR BODY SPRAYING	182.00 T/YR	VOC	3.9900 LB/GAL COATING MINUS H2O	LOW SOLVENT COATING	
OVERVARNISH	76.00 T/YR	VOC	2.3300 LB/GAL COATING MINUS H2O	LOW SOLVENT COATING	
END SEALING COMPOUND	66.00 T/YR	VOC	3.7000 LB/GAL COATING MINUS H2O	LOW SOLVENT COATING	

NOTES ----------
PLANT CURRENTLY DOES NOT PREFORM ANY BASE COATING OPERATION. COMPLIANCE COATINGS ARE NOW BEING USED FOR THE OTHER THREE COATIN G OPERATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION NATIONAL CAN CORP. CHICAGO, IL
COOK COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. C 7906091
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/09/81
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COATER & OVENS		VOC	209.6000 T/YR	COATING BREAKDOWN SEE NOTES	LAER

NOTES ----------
COATING SOLVENT LIMITATION - INSIDE SPRAY 3.63 LB/GAL, BOTTOM END SPRAY 2.1 LB/GAL, OVERVARNISH 2.1 LB/GAL, BASECOAT 1.8 LB/GAL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:	INITIAL REVIEW	POST STARTUP
	04/01/1983	04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION PREFINISH METALS WALBRIDGE, OH

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 03-746
DETERMINATION MADE BY OHIO EPA NWD (AGENCY) CHUCK HULL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/04/79
ESTIMATED DATE OF START-UP-- 1981
(419)-352-8461 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 COIL COATERS & OVENS	700000.00 T/H VARIES	VOC	37.0000 LB/H	AFTERBURNERS	97.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - CANS/COILS

COMPANY NAME/SITE LOCATION STROH CONTAINER FREMONT, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 03-807
DETERMINATION MADE BY OHIO EPA NWD (AGENCY) DON WALTERMEYER (AGENCY CONTACT PERSON) (419)-352-8461 (PHONE)

DATE OF PERMIT ISSUANCE-- 08/30/79
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BASE, BOTTOM, AND INTERNAL COAT*	3000.00 CANS/MIN.	VOC	40.0000 T/YR	
			CATALYTIC INCINERATOR	90.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION ALLIED PRINTERS & PUBLISHERS, INC. TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. T80-74
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) JIM VAN SANDT (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/13/81
ESTIMATED DATE OF START-UP-- 1980
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WEB OFFSET PRINTING PRESS	800.00 FT/SEC				
		VOC	0.7140 LB/H	STRAIGHT FLAME INCIN., W/PREHEATER HIGH SOLIDS INK (68%)	90.00

NOTES ----------
1) DECREASE IN VOC CONTENT. EFFICIENCY = 12.5%. 2) CONVERSION OF PHOTOCHEMICAL REACTANTS TO NON-REACTANT MATERIALS. EFFICIENCY = 90%

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION AVERY INTERNAT PAINESVILLE TWP., OH LAKE COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 0243110957
DETERMINATION MADE BY OHIO EPA NED (AGENCY) DENNIS BUSH (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/11/81
ESTIMATED DATE OF START-UP--
(216)-425-9171 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VINYL AND PAPER COATING LINE	63.90 GAL/H	VOC	2.6000 LB/GAL COAT. APPLIED 132.8000 T/YR	LOW SOLVENT COATING	LAER

NOTES ----------
LAER LIMITS AND ANNUAL MAX. EMISSION IMPOSED BY PERMIT CONDITIONS WHICH REQUIRES REDUCTIONS FROM SOURCE K007 OF 159.4 TPY TO P
ROVIDE THE OFFSET AND FURTHER REDUCTIONS FROM 6 (CONT. 27)
OTHER COATING LINES TO LIMIT VOC EMISSIONS TO 2.05 LB/GAL, EXCL. WATERBY 4-1-82

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION DIETZGEN CORP. DES MOINES, IL

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. C8006034
DETERMINATION MADE BY EPA REGION V (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/11/80
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROLLER COATER LINE		VOC	0.6000 LB/GAL COATING	AFTERBURNER	LAER 90.00

NOTES ----------
90% EFFICIENCY REQUIRED OF AFTERBURNER SYSTEM (CAPTURE & DESTRUCTION).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS 240.00 LB/H

COMPANY NAME/SITE LOCATION FRYE COPY SYS, INC GOSHEN, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PC(20)1480
DETERMINATION MADE BY INDIANA APCD (AGENCY) FRANK PROFIT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/07/00
ESTIMATED DATE OF START-UP--
(317)-633-0664 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAPER COATING LINE	240.00 LB/H	VOC	25.0000 T/YR	CARBON ABSORBER	95.00

NOTES ----------
4000 HRS/YEAR OPERATION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION GAZETTE PRESS PRINTING PITTSBURGH, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 28925
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) MOHAMAD MDAZED (AGENCY CONTACT PERSON) (415)-771-6000 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/20/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DRYING OVENS	12950.00 CF/M	VOC	9.0000 LB/D	FUME INCINERATOR	95.00

NOTES ----------
FUME INCINERATOR 12950 CFM KATEC, TVA-812, FILE A 340-007. SOURCE OPERATES 12 H/D, 6 D/WEEK, 52 WEEK/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION H.S. CROCKER CO. PRINTING SAN BURNO, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 28709
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) MOHAMAD MDAZED (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/21/82
ESTIMATED DATE OF START-UP--
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PRINTING PRESS, 64 INCH		VOC	415.0000 LB/D SEE NOTE		

NOTES ----------
VOC<2.5 LB/GAL LIMIT VOC CONTENT OF INKS. FILE A 340-008. SIX COLOR PRESS OPERATES 14 H/D, 5 D/WEEK, 48 WEEK/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1934

ID NUMBER CA-0055

SOURCE TYPE CODE 4.2

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION INLAND, DIVISION OF G.M. CORP. VANDALIA, OH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 0857170125 K001
DETERMINATION MADE BY REGIONAL APCA (AGENCY) JAMES GROSS (AGENCY CONTACT PERSON) (513)-225-4435 (PHONE)

DATE OF PERMIT ISSUANCE-- 09/18/80
ESTIMATED DATE OF START-UP-- 1977

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LEMBO GRAVURE VINYL COATER	45.00 GAL/H				
		VOC	83.8400 LB/H		TECH
				CARBON ADSORPTION	73.00

NOTES ----------
THE 73% EFFICIENCY REPRESENTS THE FIRST EFFICIENCY DETERMINATION. SEMI-ANNUAL EVALUATIONS WILL BE PERFORMED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION INTERNAT. LABEL MFG. FAC. CLARKSVILLE, TN

MONTGOMERY COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. PSD-TN-060
DETERMINATION MADE BY TENNESSEE APCD (AGENCY) ANGIE PITCOCK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/26/80
ESTIMATED DATE OF START-UP--
(615)-741-3651 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAPER PRINTING	3454.00 LB/H				
		VOC	46.9400 T/YR	CARBON ADSORP. BEDS + INCIN.	LAER 99.90
BOILERS, NAT. GAS, 3 EA		SO2	152.8800 T/YR		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983 INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION ITEN FIBRE CO. ASHTABULA, OH
ASHTABULA COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 0204010112
DETERMINATION MADE BY OHIO EPA NED (AGENCY) DENNIS BUSH (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/23/81
ESTIMATED DATE OF START-UP--
(216)-425-9171 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RESIN COATING LINE		VOC	2.9000 LB/GAL COAT. APPLIED 516.0000 T/YR	LOW SOLVENT COATING	LAER

NOTES ----------
COMPANY TO REPORT QUARTERLY OR MONTHLY COATING USE, TOTAL VOC EMISSIONS, AND LB/GAL VOC EMISSIONS RATE.

OFFSETS NOT REQUIRED RURAL AREA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS 450.00 LB/H

COMPANY NAME/SITE LOCATION MURRAY RUBBER, (MEAD COMPANY) HOUSTON, TX 77040
HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9040
DETERMINATION MADE BY TEXAS ACB (AGENCY) ART KELLOGG (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/01/82
ESTIMATED DATE OF START-UP-- 1982
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FABRIC COATER	450.00 LB/H				
		VOC	27.0000 LB/H		
				THERMAL OXIDIZER	90.00

NOTES ----------
THIS SYSTEM REDUCES EMISSIONS TO 0.83 LB/GAL APPLIED W/GREATER THAN 90% EFFICIENCY (MAXIMUM). TACB REGULATIONS & EPA GUIDELINE S ALLOW A MAX. OF 2.9 LB/GAL APPLIED. THE OXIDIZER REQUIRES NO FUEL FOR OPER. OTHER THAN THE DRYER EMIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION NDM CORP. MORAINE, OH

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 0857101457 K001
DETERMINATION MADE BY RAPCA - DAYTON,OH (AGENCY) THURMAN SMITH (AGENCY CONTACT PERSON) (513)-225-4435 (PHONE)

DATE OF PERMIT ISSUANCE-- 07/23/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT C	PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAPER COATING	30.00 FT/MIN					
		VOC	19.0000 LB/H 11.4000 T/YR	THERMAL INCINERATOR		99.70

NOTES ----------
THERMAL INCINERATOR WAS TESTED AT 99.7% OVERALL EFFICIENCY. COATING MUST MEET 2.9 LB VOC/GAL COATING OR CONTROL EQUIPMENT MUST PROVIDE AN EMISSION REDUCTION OF 50.5%. PERMIT RESTRICTS OVERALL EFFICIENCY TO NO LESS THAN 85.5%.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - PAPERS/FABRICS

COMPANY NAME/SITE LOCATION STECHER-TRAUNG-SCHMIDT NEWARK, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 28246
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) ELLEN LINDER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/08/82
ESTIMATED DATE OF START-UP-- 1983
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
OVEN, VARNISHER DRYING	4000.00 SHEETS/H	VOC	67.0000 LB/D	HIRT FUME INCINERATOR	BACT 90.00

NOTES ----------
OVERALL EFFICIENCY 90%, 97% IN-OUT OF INCINERATOR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS

COMPANY NAME/SITE LOCATION CHEVROLET - FLINT MANUFACTURING
300 NORTH CHEVROLET AVE
FLINT, MI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 95-84
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) GREGORY EDWARDS (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/07/84
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SPRAY BOOTH, SOUND DEADENER	300.00 PARTS/H	VOC	78.5000 LB/H SEE NOTE 108.0000 T/YR SEE NOTE	AIRLESS GUNS & TIMED SPRAYING	LAER
SPRAY BOOTH, REINFORCEMENT	300.00 PARTS/H	VOC	78.5000 LB/H SEE NOTE 108.0000 T/YR SEE NOTE	AIRLESS GUNS & TIMED SPRAYING	LAER

NOTES ----------
NOTE - EMISSION LIMITS ON VOC ARE FOR BOTH BOOTHS COMBINED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS 75.00 CARS/H

COMPANY NAME/SITE LOCATION CHRYSLER CORP.
JEFFERSON AV. ASSEMBLY PLANT DETROIT, MI 48226
WAYNE COUNTY

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
PERMIT NO. C-5366 THRU C-5369
DETERMINATION MADE BY WAYNE COUNTY APCD (AGENCY) AL SCHEANS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/05/80
ESTIMATED DATE OF START-UP-- 1980
(313)-224-4693 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TACK-OFF BOOTH					
COLOR SPRAY BOOTH	500000.00 SCFM	VOC		EXHAUST THRU SPRAY BOOTH	LAER
COLOR FLASH-OFF BOOTH	10000.00 SCFM	VOC		SEE NOTE	
DOUBLE-WIDTH OVEN	6668.00 SCFM	VOC	25.2000 LB/GAL APPL. SOL		LAER
		VOC	12.9000 LB/GAL APPL. SOL	OVEN EXHAUST INCIN.	90.00

NOTES ----------
STAGED LAER CONCEPT PROVIDING FOR PHASE-IN OF NEW TECHNOLOGY AS IT IS DEVELOPED - PHASE 1, START UP USING LOW VOLTAGE ELECTROS TATIC PAINT SPRAYING AND OVEN EXAUST INCINERATION; PHASE 2, INTRODUCTION OF HIGH VOLTAGE ELECTROSTATIC PAINT SPRAYING; PHASE 3, INTRODUCTION OF HIGH SOLIDS TOPCOAT ENAMELS BY 8/31/83.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS

COMPANY NAME/SITE LOCATION FMC CORP. - SAN JOSE ORDINANCE SAN JOSE, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 28310
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) BRIAN BATEMAN (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 06/22/82
ESTIMATED DATE OF START-UP--
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAINT SPRAY BOOTH	18.00 GAL/D	VOC	190.0000 LB/D SEE NOTE		

NOTES ----------
FILE A 350-011. AIRLESS ELECTROSTATIC SPRAYING OF 40% SOLIDS PAINT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS

COMPANY NAME/SITE LOCATION FORD MOTOR CO.
MILAN PLASTICS PLANT
MILAN, MI
MONROE COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 447-454/79 + 456/79
DETERMINATION MADE BY MICHIGAN DNR (AGENCY)
GREGORY EDWARDS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/01/80
ESTIMATED DATE OF START-UP-- 1985
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ELECTROSTATIC PAINT SYS.					
		VOC	457.5000 LB/H	CATALYTIC INCINERATOR ELECTROSTATIC SPRAY BOOTHS	LAER 95.00
COMPOUND MACHINES, DIRECTIONAL *					
		VOC	0.7400 LB/H	CARBON ADSORPTION	LAER 90.00
		VOC	9.0700 LB/H	NONE	LAER

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 03/13/1984

ID NUMBER MI-0017

SOURCE TYPE CODE 4.3

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS 60.00 TRUCKS/H

COMPANY NAME/SITE LOCATION GM WORLD WIDE TRUCK DIV
2601 WEST STROOP ROAD MORAINE, OH 45439
MONTGOMERY COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 08-215
DETERMINATION MADE BY RAPCA - DAYTON,OH (AGENCY) GORBY LEE (AGENCY CONTACT PERSON) (513)-225-4435 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/13/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ELPO PRIME	63.50 UNITS/H	VOC	1.2000 LB/GAL COATING MINUS H2O CATHODIC EDP	LAER
PRIMER SURFACER	63.50 UNITS/H	VOC	2.8800 LB/GAL COATING MINUS H2O 15.8400 LB/GAL VOC SOLIDS APPL WITH 62% TRANSFER EFFICIENCY	LAER
TOP COAT	63.50 UNITS/H	VOC	3.6000 LB/GAL COATING MINUS H2O 15.0500 LB/GAL VOC SOLIDS APPL WITH 59% TRANSFER EFFICIENCY	LAER
ANTI-CORROSION	63.50 UNITS/H	VOC	4.3000 LB/GAL COATING MINUS H2O WITH 90% TRANSFER EFFICIENCY	LAER
PLASTISOL/ANTI-CHIP	63.50 UNITS/H	VOC	3.5000 LB/GAL COATING MINUS H2O WITH 50% TRANSFER EFFICIENCY	LAER

(CONTINUED) GM WORLD WIDE TRUCK DIV

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CHASSIS BLACK	63.50 JOB/H	VOC	3.5000 LB/GAL VOC MINUS H2O	
WHEEL PAINT	63.50 JOB/H	VOC	3.7000 LB/GAL VOC MINUS H2O	
MAST JACKET	63.50 JOB/H	VOC	6.3000 LB/GAL VOC MINUS H2O	
FINAL REPAIR	63.50 JOB/H	VOC	4.8000 LB/GAL VOC MINUS H2O	

NOTES ----------
MISCELLANEOUS FUGITIVE VOC EMISSIONS ARE ESTIMATED TO TOTAL 488 TPY FROM THIS FACILITY.

TOTAL VOC EMISSIONS NOT TO EXCEED 2050 TPY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - AUTO./LIGHT DUTY TRUCKS

COMPANY NAME/SITE LOCATION VOLKSWAGEN OF AM
16 MILE ROAD & VAN DYKE AVENUE
STERLING HEIGHTS, MI 48077
OAKLAND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 250-80 TO 273-80, 3*
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) JON TROUT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/01/80
ESTIMATED DATE OF START-UP--
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAINTING OPERATIONS		VOC	SEE NOTE SEE NOTES		

NOTES ----------
CHECK WITH STATE FOR DETAILS. EMISSION LIMITS TOO EXTENSIVE TO MENTION HERE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 03/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - METAL FURNITURE

COMPANY NAME/SITE LOCATION KINCAID FURNITURE CO., INC. LENIOR, NC

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 5276
DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY) MIKE SEWELL (AGENCY CONTACT PERSON) (919)-733-7015 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/17/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FINISHING OPERATION				
		VOC		
BOILER, WOODWASTE, 2	11.60 MMBTU		NONPHOTOCHEMICALLY REACTIVE FINISHING MATL.	
		VOC		
			GOOD OPERATING PRACTICES	

NOTES ----------
PSD ONLY FOR VOC EMISSIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - METAL FURNITURE

COMPANY NAME/SITE LOCATION STEELCASE, INC.
1120 36TH STREET
GRAND RAPIDS, MI 49501
KENT COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 51-80
DETERMINATION MADE BY MICHIGAN DNR (AGENCY)
JOHN CAUDELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/01/80
ESTIMATED DATE OF START-UP-- 1981
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, COAL FIRED, 2 EA	40000.00 LB/H				
		PM	0.0500 LB/MMBTU	CYCLONE & BAGHOUSE	99.00
		SO2	1.6000 LB/MMBTU	LOW S COAL, MAX 1%	
		NOX	0.6000 LB/MMBTU	CONTROL EXCESS & OVERFIRE AIR	
COAL & ASH HANDLING SYS.					
		PM	0.0300 GR/DSCF	FABRIC FILTER DUST SUPPRESENT	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - MAGNET WIRE

COMPANY NAME/SITE LOCATION PHELPS DODGE, MAGNET WIRE CORP.
P.O. BOX 768
HOPKINSVILLE, KY 42440
CHRISTIAN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-75-16
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/25/75
ESTIMATED DATE OF START-UP-- 1976
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
OVENS, 4	1501.00 T/YR COATING				
		VOC	40.8000 LB/H 675.4900 T/YR	INCINERATOR	90.00
OVENS, FINE WIRE, 10	165.00 T/YR COATING				
		VOC	4.5500 LB/H 19.1100 T/YR	INCINERATOR	90.00
OVENS, 1 HEAVY & 1 MEDIAN WIRE	514.00 T/YR COATING				
		VOC	13.9600 LB/H 58.6000 T/YR	INCINERATOR	90.00
OVENS, 6 HEAVY & 1 FINE WIRE	2158.00 T/YR COATING				
		VOC	31.3000 LB/H 85.9000 T/YR	CATALYTIC (1350 F), THERMAL INCINERATOR	BACT 95.00
OVEN, 1 FINE WIRE	16.00 T/YR COATING				
		VOC	0.4550 LB/H 1.9100 T/YR		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 02/13/1984

ALSO COVERS PERMIT NUMBERS C-75-23, C-77-75, C-78-60, C-79-013.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:	INITIAL REVIEW 04/01/1983	POST STARTUP 02/13/1984

SOURCE TYPE/SIZE--- SURFACE COATING - LARGE APPLIANCES

COMPANY NAME/SITE LOCATION SANYO E&E CORP.
400 RUFFIN RD.
SAN DIEGO, CA 92123

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 07037
DETERMINATION MADE BY SAN DIEGO APCD (AGENCY)
LORENZO ALEJANDRIA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/21/81
ESTIMATED DATE OF START-UP-- 1979
(619)-565-3914 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COATING LINE	107.50 GAL/D	VOC	275.0000 G/LITER OF COATING	HIGH SOL. COAT. TO LOW SOL. COAT..	BACT

NOTES ----------
AVERAGE SOLVENT CONTENT OF COATINGS USED BEFORE MODIFICATION WAS 365.9 G/LITER, & AFTER MODIFICATION, THE SOLVENT CONTENT OF NEW COATINGS IS 280 G/LITER (WITH 10% DEVIATION FOR UNSTANDARDIZED TEST METHOD USED & AGREED BY APCD).
COATING LINE INCLUDES ONE AUTOMATIC PAINT SPRAY BOOTH USING ELECTROSTATIC SPRAY DEVICES, TWO TOUCHUP SPRAY BOOTHS, ONE BAKING OVEN.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

SOURCE TYPE/SIZE--- SURFACE COATING - MISC. METAL PARTS/PRODUCTS

COMPANY NAME/SITE LOCATION ALENCO DIVISION OF REDMAN BUILDING PROD* , TX
BRAZOS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-8696
DETERMINATION MADE BY TEXAS ACB (AGENCY) ART KELLOGG (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/17/81
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAINTING EXTRUSIONS	384.00 LB/H PAINT *	VOC	65.1000 LB/H	DIRECT FLAME INCINERATION	68.00
				USE OF HIGH SOLIDS PAINT	

NOTES ----------
EFFICIENCY OF THE BAKE OVEN DIRECT FLAME INCINERATION IS ESTIMATED TO BE A MINIMUM OF 68%, PER FIG. 111 ON PG. 181 OF AP-40, B
UT IS THOUGHT TO BE GREATER. HOWEVER, NO SAMPLING WAS REQUIRED FOR THIS LOW EMISSION RATE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - MISC. METAL PARTS/PRODUCTS

COMPANY NAME/SITE LOCATION AMERICAN METAL DECORATING CO. FREMONT, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27361
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) JOHN PHILLIPS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/07/80
ESTIMATED DATE OF START-UP-- 1980
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COATING LINE	91800.00 GAL/YR				
		VOC	250.0000 LB/D	FUME INCINERATOR	87.00

NOTES ----------
FILE A 340-006

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

SOURCE TYPE/SIZE--- SURFACE COATING - MISC. METAL PARTS/PRODUCTS

COMPANY NAME/SITE LOCATION MARK IND. SELMA, TX

GUADALUPE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X3697
DETERMINATION MADE BY TEXAS ACB (AGENCY) RANDY HAMILTON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/20/82
ESTIMATED DATE OF START-UP-- 1982
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SPRAY BOOTHS, 2		VOC	7.6400 T/YR	ELECTROSTATIC PAINT GUNS/DRY FILTER WATERBASE PAINT, HEATED, AIRLESS	90.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- SURFACE COATING - MISC. METAL PARTS/PRODUCTS 9.00 GAL/H

COMPANY NAME/SITE LOCATION SQUARE D CO.
5735 COLLEGE CORNER RD
OXFORD, OH
BUTLER COUNTY

DETERMINATION IS
PERMIT NO. 18-184
DETERMINATION MADE BY SOUTHWEST OHIO APCA (AGENCY) THOMAS TUCKER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/25/84
ESTIMATED DATE OF START-UP-- 1984
(513)-251-8777 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAINT TANK, EDP	6000.00 SQF METAL/H				
		VOC	2.4000 LB/GAL COATING MINUS H2O 1.0000 LB/GAL	WATERBASE COATINGS, ELECTRODEPOSITION	
SPRAY BOOTH, TOUCH-UP PAINT					
		VOC	2.4000 LB/GAL COATING MINUS H2O 1.1400 LB/GAL	WATERBASE COATINGS	

NOTES ----------
BACT DETERMINED BY TECHNOLOGY, ECONOMICS, & SOURCE SIZE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - MISC. METAL PARTS/PRODUCTS

COMPANY NAME/SITE LOCATION TIFTON ALUMINUM CO. DELHI, LA RICHLAND PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-LA-514
DETERMINATION MADE BY LAQD/EPA REGION VI (AGENCY) BHARAT CONTRACTOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/10/84
ESTIMATED DATE OF START-UP-- 1984
(504)-342-8940 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAINTING, AUTOMATIC BOOTH, 4 EA	13440.00 ACFM	VOC	20.1000 LB/H	MAX 6.25 LB/GAL VOC CONT. FOR COATING	BACT
PAINTING, TOUCH-UP BOOTH, 2 EA	9600.00 ACFM	VOC	0.9000 LB/H	MAX 6.25 LB/GAL VOC CONT. FOR COATING	BACT
OVEN, FLASH-OFF	980.00 ACFM	VOC	17.4000 LB/H	MAX 6.25 LB/GAL VOC CONT. FOR COATING	BACT
OVEN, BAKE	2870.00 ACFM	VOC	75.6000 LB/H	MAX 6.25 LB/GAL VOC CONT. FOR COATING	BACT

NOTES ----------
NO APPLICABLE NSPS, RACT, OR CTG. BACT IS BASED ON SURVEY OF ALL STATES IN US. THE BACT WILL BE RE- EVALUATED AFTER ONE YEAR O F ACTUAL OPERATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER LA-0044

SOURCE TYPE CODE 4.7

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SURFACE COATING - FLATWOOD PANELING 63300.00 SQFT/H

COMPANY NAME/SITE LOCATION ABITIBI-PRICE CORP.
2900 HILL AVE TOLEDO, OH 43607

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 04-204
DETERMINATION MADE BY TOLEDO ENVIRONMENTAL SERVICE (AGENCY) DALE KRYGIELSKI (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/07/83
ESTIMATED DATE OF START-UP-- 1980
(419)-693-0350 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLATWOOD PANELING	63300.00 SQF/H			
		VOC	2.4000 LB/MSQFT CLASS II HB	
			5.3300 LB/MSQFT CLASS I TB	
			INCINERATION OF SOME VOC EMISSIONS	59.00
			H2O BASED COATINGS,LOW VOC HIGH SOLIDS COATINGS	

NOTES ----------
FACILITY COATS EITHER HARDBOARD OR TILEBOARD BUT NOT BOTH AT THE SAME TIME. ORIGINAL PTI 04-108 ISSUED 01/78. REVISED PTI ISSUED 07/83. INCINERATION AND TOTAL SYSTEM EFFICIENCIES ARE LOWER ESTIMATES SINCE UNDETERMINED AMMOUNTS OF FLASHOFF EMISSIONS ARE USED TO COOL THE INCINERATOR EXHAUST. CLASS II HARDBOARD HAS 62.8% CAPTURE EFFICIENCY AND 94.3+% INCINERATION EFFICIENCY. CLASS I TILEBOARD HAS 57.2% CAPTURE EFFICIENCY AND 95.7+% INCINERATION EFFICENCY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/13/1984

SOURCE TYPE/SIZE--- SOLVENT DEGREASING

COMPANY NAME/SITE LOCATION ALLOYTEK GRANDVILLE, MI

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 258-83A
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) DAVID FERRIER (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)

DATE OF PERMIT ISSUANCE-- 08/05/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VAPOR DEGREASER		VOC	8.0000 LB/H	REFRIG. FREEBOARD W/COVER DURING DWN TIME	95.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

SOURCE TYPE/SIZE--- SOLVENT DEGREASING

COMPANY NAME/SITE LOCATION BRIGGS & STRATTON CORP. MENOMONEE FALLS, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-10-GEB-81-68-002
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) EMILIA ESTRADA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/04/81
ESTIMATED DATE OF START-UP--
(608)-266-0244 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DEGREASERS		VOC		LAER

NOTES ----------
OFFSETS FOR NEW EQUIPMENT COVERED PERMIT, EXCLUDING RELOCATED EQUIPMENT AT 20% OBTAINED FROM DISCONTINUING DETREX LDC-750-1G, #57920, CONVEYERIZED DEGREASER LOCATED AT BRIGGS & STRATTON BURLEIGH ST PLANT, MILWAUKEE
DISCONTINUED CONVEYOR CREATED 73.62 TPY EMISSION REDUCTION, 19.49 TPY ASSIGNED TO OFFSET SOURCES UNDER MIN-05-80-68-126, 19.82 TPY ASSIGNED FOR OFFSETS THIS PERMIT, REMAINING 24.31 TPY BANKED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- SOLVENT DEGREASING

COMPANY NAME/SITE LOCATION REGAL INTERNATIONAL, INC. , TX
NAVARRO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-3641
DETERMINATION MADE BY TEXAS ACB (AGENCY) ART KELLOGG (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/22/82
ESTIMATED DATE OF START-UP-- 1978
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PAINT SPRAYING	49920.00 LB/YR				
VAPOR DEGREASING	18480.00 LB/YR	VOC	4.0000 T/YR		
		VOC	1.1500 T/YR	COOLING COILS	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION BEMIS CARPHANE FILMS OSHKOSH, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-10-EYE-81-71-083
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) EMILIA ESTRADA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/25/81
ESTIMATED DATE OF START-UP--
(608)-266-0244 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SARAN COATERS, 2 EA		VOC	0.3200 KG/L 2.6700 LB/GAL LOW SOLVENT COATING	LAER

NOTES ----------
OFFSET FROM SHUTDOWN OF #14 LAMINATOR AT CURWOOD, NEW LONDON

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION BEMIS CO. OSHKOSH, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-03-80-71-125
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) EMILIA ESTRADA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/13/80
ESTIMATED DATE OF START-UP--
(608)-266-0244 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLEXOGRAPHIC PRINTING PRESS #8		VOC	85.0000 % REDUCTION	LOW SOLVENT COATINGS	LAER
EXTRUSION COATER #9		VOC	0.0900 KG/L 1.5600 LB/GAL	LOW SOLVENT COATINGS	LAER
LAMINATOR #16		VOC	0.1700 KG/L 1.4300 LB/GAL	LOW SOLVENT COATINGS	LAER

NOTES ----------
OFFSET FROM CLOSING #1 SARAN COATER & LAMINATOR #11

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION BEMIS SPECIALTY FILMS OSHKOSH, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-10-EYE-81-71-082
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) EMILIA ESTRADA (AGENCY CONTACT PERSON) (608)-266-0244 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/21/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LAMINATOR #17					
		VOC	0.0400 KG/L COATING 0.3300 LB/GAL	LOW SOLVENT COATINGS	LAER
COATER #10					
		VOC	0.0300 KG/L COATING 0.2500 LB/GAL	LOW SOLVENT COATINGS	LAER
COATER #11					
		VOC	0.2100 KG/L 1.7700 LB/GAL	LOW SOLVENT COATINGS	LAER
FLEXOPRESS COATER #2					
		VOC	18.0000 % VOC VOL. IN INK	LOW SOLVENT COATINGS	LAER

NOTES ----------
OFFSET FROM SHUTDOWN OF #14 LAMINATOR & #2 SARAN COATER AT CURWOOD, NEW LONDON

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 102.00 GAL INK/H

COMPANY NAME/SITE LOCATION BROWN PRINTING
P.O. BOX 451
FRANKLIN, KY 42134
SIMPSON COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. C-80-95
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/28/80
ESTIMATED DATE OF START-UP-- 1981
(502)-564-3382 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRINTING PRESS	102.00 GAL/H INK	VOC	102.0000 GAL/H INK	CARBON ADSORPTION	LAER 97.00

NOTES ----------
CHANGING THINNER USAGE, BUT LIMITING INK TO 102 GAL INK/HOUR. 7 UNITS, BACT/LAER WILL BE DETERMINED USING A PHASED APPROCH.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION COLUMBUS COATED FABRICS COLUMBUS, OH

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
PERMIT NO. 01-415
DETERMINATION MADE BY OHIO EPA CD (AGENCY) VICTOR FISHER (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/29/81
ESTIMATED DATE OF START-UP--
(614)-864-3195 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INTA-ROTO HL-41 PRINTER	7.00 MMYD/YR	VOC	4.8000 LB/GAL VINYL	BACT
			2.9000 LB/GAL INK	
			COAT COMPOSIT.<25% SOLV,BY VOL	70.00

NOTES ----------
LIMITS IMPOSED BY PERMIT TO INSTALL, WHICH ALSO REQUIRES NEW PERMIT APPLICATION IF SOLVENT COMPOSITION OR SCHEDULE ARE CHANGED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 360.00 T/YR

COMPANY NAME/SITE LOCATION CONTAINER CORP. OF AM MUNCIE, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PC(18)1477
DETERMINATION MADE BY INDIANA APCD (AGENCY) FRANK PROFIT (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/31/80
ESTIMATED DATE OF START-UP--
(317)-633-0664 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRINT PRESS	362.00 T/YR VOC	VOC	36.0000 T/YR	FUME INCINERATOR	90.00

NOTES ----------
OPERATES 6240 HRS/YEAR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- GRAPHIC ARTS 1073.30 LB/H

COMPANY NAME/SITE LOCATION CPS INDUSTRIES FRANKLIN, TN WILLIAMSON COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TN-069
DETERMINATION MADE BY TENNESSEE APCD (AGENCY) ANN NIELSON (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(615)-741-3651 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CERUTTI & HELIX PRESSES, 5	1073.30 LB/H TOTAL	VOC	128.1100 LB/H	SOLVENT REC. SYS & CARBON. BED	LAER 84.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER TN-0005

SOURCE TYPE CODE 4.12

SOURCE TYPE/SIZE--- GRAPHIC ARTS 2400.00 T/YR

COMPANY NAME/SITE LOCATION DIVERSIFIED PRINTING BACKSON, TN 37055
DICKSON CORAMY INDUSTRIAL PARK DICKSON COUNTY

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. PSD-TN-069
DETERMINATION MADE BY TENNESSEE APCD (AGENCY) ANGIE PITCOCK (AGENCY CONTACT PERSON) (615)-741-3651 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/10/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PRINTING		VOC	2400.0000 T/YR	CARBON ADSORPTION	LAER 84.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- GRAPHIC ARTS 2000.00 FT/MIN

COMPANY NAME/SITE LOCATION R. J. R. ARCHER,INC. 220 E. POLO RD WINSTON-SALEM, NC

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 00466-0005-P
DETERMINATION MADE BY FORSYTH COUNTY ENV. AFFAIRS (AGENCY) KEITH TART (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(919)-727-8060 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRESS	2630.00 LB/H PAPER	VOC	341.0000 LB/H	CARBON ADSORB. SYS & RECOVERY SYS	69.00

NOTES ----------
LOCAL PERMIT TO CONSTRUCT WAS NOT ISSUED. R.J.R. ARCHER, INC. REQUESTED TERMINATION OF PSD EVALUATION BECAUSE THEY CONTROLLED THE MAJORITY OF THE EXISTING PLANT AND THE OFFSET GENERATED WOULD ELIMINATE THE REQUIREMENTS OF A PSD ANALYSIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- GRAPHIC ARTS 3368.00 T/YR EA

COMPANY NAME/SITE LOCATION R.R. DONNELLEY & SONS CO. MATTOON, IL
COLES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. EPA-5-A-80-17
DETERMINATION MADE BY EPA REGION V (AGENCY) BONIFACE THAYIL (AGENCY CONTACT PERSON) (312)-886-6054 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/18/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRESSES, 2 EA	3368.00 T/YR				
		VOC	212.0000 T/YR		BACT
				CARBON ABSORBER	95.00

NOTES ----------
OPERATING HOURS MAX. 7280 HRS/YR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

SOURCE TYPE/SIZE--- GRAPHIC ARTS 5860.00 LB/H

COMPANY NAME/SITE LOCATION SOUTHWEST COLOR PRINTING CORP. , TX
ANGELINA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C-9131
DETERMINATION MADE BY TEXAS ACB (AGENCY) ART KELLOGG (AGENCY CONTACT PERSON) (713)-634-3357 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/22/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
OFFSET PRINTERS, 2	5860.00 LB/H PRODUC*	VOC	204.0000 T/YR	SEE NOTE	
		NOX	3.5000 T/YR	SEE NOTE	

NOTES ----------
NOTE-THESE EMISSION LIMITS ARE WITHOUT CONTROLS. IN LIEU OF ADD-ON CONTROL DEVICES THIS SOURCE IS REQUIRED TO CONVERT TO HIGH-SOLIDS OR WATER-BORNE INKS WHEN THEY ARE DEMONSTRATED TO BE SATISFACTORY FOR USE IN THE INDUSTRY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

SOURCE TYPE/SIZE--- GRAPHIC ARTS 32.00 LB/H INK

COMPANY NAME/SITE LOCATION UNITED COLOR PRESS
351 GARVER RD
MONROE, OH
BUTLER COUNTY

DETERMINATION IS
PERMIT NO. 16-176
DETERMINATION MADE BY SOUTHWEST OHIO APCA (AGENCY)
RAY SILBERNAGEL (AGENCY CONTACT PERSON)
(513)-251-8777 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/17/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
OVEN & PRESS, TITAN	32.00 LB/H INK	VOC	90.0000 % CONTROL	CATALYTIC INCINERATOR	TECH 92.00

NOTES ----------
92% DESTRUCTION EFFICIENCY DEMONSTRATED, CAPTURE EFFICIENCY UNDETERMINED. THE SOURCE WAS MOVED FROM PREVIOUS LOCATION, TRIGGERING NEW SOURCE REVIEW REQUIREMENTS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- GRAPHIC ARTS

COMPANY NAME/SITE LOCATION WORLD COLOR PRESS SALEM, IL
MARION COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C 80 10 0006
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/13/82
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRESSES		VOC	336.0000 T/YR	CARBON ADSORPTION SYSTEM	BACT 94.00
OFFSET PRESSES		VOC	251.0000 T/YR	AFTERBURNER SYSTEM OR EQUIVALENT SYSTEM	BACT 90.00

NOTES ----------
1.BACT RETROSPECTIVELY APPLIED WHEN PSD PROJECT BROUGHT TO LIGHT BY APPLICANT. 2.EFFECTIVENESS OF AFTERBURNERS FOR OFFSET PRESSES IS BEING INVESTIGATED WITH TRIAL PROGRAM ON ONE PRESS TO BE CONCLUDED 9/84. EVALUATING ADD ON CONTROLS VS. REDUCTIONS ACHIEVED THROUGH REFORMULATION OF INK AND FOUNTAIN SOLUTION. LIMITS WILL BE ADJUSTED ACCORDINGLY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:	INITIAL REVIEW	POST STARTUP
	04/01/1983	04/04/1984

SOURCE TYPE/SIZE--- GRAPHIC ARTS 120.00 MMBTU/H

COMPANY NAME/SITE LOCATION W.F. HALL PRINTING CO. 4310 EVANS TO LOCK RD EVANS, GA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 2754-036-8480
DETERMINATION MADE BY GEORGIA EPD (AGENCY) BILL FARRISEE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/04/82
ESTIMATED DATE OF START-UP-- 1981
(404)-656-4867 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	60.00 MMBTU/H				
		PM	0.1000 LB/MMBTU	BOILER DESIGN	NSPS
		SO2	246.0000 LB/H		
			0.8000 LB/MMBTU	BOILER DESIGN	NSPS
CARBON BED ADSORPTION UNIT	513.00 LB/H VOC				
		VOC	39.0000 LB/H	CARBON ADSORPTION SYSTEM	LAER
		CO			95.00
		NOX	0.3000 LB/MMBTU	BOILER DESIGN	NSPS

NOTES ----------
PERMIT AMMENDED TO COVER TWO BOILERS INSTEAD OF THREE BOILERS IN ORIGINAL PERMIT AND TO COVER USE OF NO.6 FUEL (2.1% SULFUR) I NSTEAD OF NO.6 FUEL (.9% SULFUR) IN ORIGINAL PERMIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS 300.00 GAL TOPCOAT/D

COMPANY NAME/SITE LOCATION BROYHILL FURNITURE NEWTON, NC CATAWBA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NC-035
DETERMINATION MADE BY NORTH CAROLINA DEM (AGENCY) MIKE SEWELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(919)-733-6126 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SPRAY BOOTHS		VOC	688.0000 T/YR	NONE EQUIPMENT DESIGN & OPERATION	BACT

NOTES ----------
11 SPRAY BOOTHS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION FLUORESCENT EQUIPMENT & MFG CO. BEDFORD HTS, OH 44146
24350 SOLON RD

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 13-1133
DETERMINATION MADE BY CLEVELAND DAPC (AGENCY) IKE HABIB (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--
(216)-664-3508 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COATING LINE, LIGHT FIXTURES	1000.00 LB/H	VOC	0.2500 T/YR		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION GUARDIAN INDUSTRIES CORP. , TX
NAVARRO COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-4293
DETERMINATION MADE BY TEXAS ACB (AGENCY) ROBERT MAUEL (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)
DATE OF PERMIT ISSUANCE-- 06/08/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COATING APPLICATOR		VOC	NONE VACUUM SPUTTERING MACHINE	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

ID NUMBER TX-0119

SOURCE TYPE CODE 4.14

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION MEREDITH CORP. DES MOINES, IA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) STEVE KOVAC (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/15/82
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ROTOGRAVURE PRINTING PRESS	1614.00 LB/H SOLVENT				
		VOC	16.0000 % VOL SOLVENT USED		
FLEXOGRAPHIC PRINTER				SOLVENT RECOVERY SYSTEM	95.00

NOTES ----------
THE FLEXOGRAPHIC PRINTER SHALL NOT USE A RAW INK (OR RELATED COATING) WITH A RATIO OF VOC VOLUME CONTENT TO SOLIDS VOLUME CONT
ENT WHICH IS GREATER THAN 0.64 NOR SHALL RAW INK BE DILUTED WITH ANYTHING OTHER THAN WATER ADDITION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION MR. SPA, INC. CAMARILLO, CA
VENTURA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 1240-1
DETERMINATION MADE BY VENTURA COUNTY APCD (AGENCY) KEITH DUVAL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/08/83
ESTIMATED DATE OF START-UP-- 1983
(805)-654-2664 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FIBERGLASS-POLYESTER RESIN APPL*	3093.00 LB/D RESIN	VOC	120.0000 LB/D	SEE NOTE	

NOTES ----------
FILE A 340-A013. INCREASE STYRENE CONTENT IN GEL COAT TO ELIMINATE NEED FOR ACETONE DILUTION, USE OF FILLER MATERIAL IN RESIN FOR DISPLACEMENT, VAPOR SUPPRESENT IN RESIN.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/26/1984

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION PPG INDUSTRIES, INC. CLEVELAND, OH 44111
3800 WEST 143 ST.

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 13/18/00/0101,SEE N*
DETERMINATION MADE BY CLEVELAND DAPC (AGENCY) IKE HABIB (AGENCY CONTACT PERSON) (216)-664-3508 (PHONE)

DATE OF PERMIT ISSUANCE-- 01/06/84
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENTIRE PLANT, SEE NOTE #2					
		VOC		THERMAL INCINERATOR SYSTEM	90.00
		ODOR		THERMAL INCINERATOR SYSTEM	90.00
FUGITIVE EMISSIONS		PM	898.0000 T/YR UNCONTROLLED		

NOTES ----------
NOTE - SOURCE # P001-P004, P008-P010, P013-P015, P017, P019-P022, P024- P029, P032, P033, P035-P040, P043-P046, & T116-T122. N
OTE #2 - INCLUDES SAND MILLS, ATTRITION MILLS, COWLES & HOCKMEYER MIXERS, BATCH BLENDING TANKS,
TANK & TOTE BIN CLEANING BOOTHS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION ROCKWELL INTERNATIONAL TULSA, OK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. T80-43
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) BILL GIBBONS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 07/08/80
ESTIMATED DATE OF START-UP-- 1981
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CHEM MASKANT ON ACFT SKINS	NOTE #1	VOC	202.0000 T/YR UNCONT.,NOTE#2	CARBON ADSCRPTION	90.00
BOND PRIME, PRIME & ENAMEL COAT*	NOTE #1	VOC	18.4000 T/YR UNCONT.,NOTE#2 3.4000 T/YR CONT.,NOTE#2	CARBON ADSORPTION UNITS	80.00

NOTES ----------
1) MASKANT & COATINGS RELATED TO COMMERCIAL AIRCRAFT BODY SECTION PRODUCTION, PERMIT LIMITS PRODUCTION TO 144 SHIP SETS PER YEAR.
2) BATCH TYPE COATINGS OPERATIONS NEGATES MEANINGFUL HOURLY EMISSION RATE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION SOLVENT RESOURCE RECOVERY WEST CARROLLTON, OH

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 0857751346 P004
DETERMINATION MADE BY RAPCA - DAYTON,OH (AGENCY) GORBY LEE (AGENCY CONTACT PERSON) (513)-225-4435 (PHONE)

DATE OF PERMIT ISSUANCE-- 07/07/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DISTILLATION UNIT	300000.00 GAL/YR	VOC	1.2700 LB/D 0.1600 T/YR	CONDENSORS	99.99

NOTES ----------
DISTILLATION UNIT IS OPERATED WITH CONDENSORS WHICH ARE 150% OF DESIGN CAPACITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

SOURCE TYPE/SIZE--- OTHER ORGANIC EVAPORATION LOSS

COMPANY NAME/SITE LOCATION U.S. AVIEX CO.
1800 TERMINAL ROAD
NILES, MI 49120

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 260-83
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) ASAD KHAN (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/14/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CONTAMINATED GROUND WATER CLEAN*	200.00 GPM				
		1,1*	16.9100 MG/CU METER	3 - 1000 CFM CAP. ADSORPTION UNITS	90.00
		CAR*	5.3400 MG/CU METER		
		TRI*	2.6700 MG/CU METER		
		CHL*	0.0900 MG/CU METER		
		VOC	28.4700 MG/CU METER		

NOTES ----------
VOC DETERMINED BY BACT REQUIREMENTS PER STATE REGULATIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - SEPARATION 450.00 MMBTU/H

COMPANY NAME/SITE LOCATION ARCO PETROLEUM PROD. CO. CARSON, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) LA-78-17
DETERMINATION MADE BY EPA REGION IX (AGENCY) RICK SUGAREK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/06/79
ESTIMATED DATE OF START-UP--
(415)-974-8058 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DISTIL. UNIT, REPLACEMENT CRUDE	450.00 MMBTU/H HEA*	SO2	800.0000 PPM S 0.2500 % S	REFIN. GAS FUEL OIL SULFUR-IN-FUEL	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - SEPARATION

COMPANY NAME/SITE LOCATION GULF STATES OIL & REFINING CO. CORPUS CHRISTI, TX NUECES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 8452
DETERMINATION MADE BY TEXAS ACB (AGENCY) STUART KEIL (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/04/80
ESTIMATED DATE OF START-UP-- 1981
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 4	109.00 MMBTU/H				
		SO2	32.9000 T/YR	NONE - LOW SULFUR FUELS	BACT
		NOX	19.5000 T/YR		AP42
FUGITIVE EMISSIONS					
		VOC	3.1000 T/YR	MONITORING & MAINTENANCE	BACT 75.00
VAC. COLUMN EJECTOR	16000.00 B/D FEED				
		VOC		NONE	
				VAPORS TO FUEL SYSTEM	100.00

NOTES ----------
VACUUM COLUMN VAPORS ROUTED TO FUEL SYSTEM, STEAM CONDENSATE TO DESALTER. CONSIDERED AS A CLOSED SYSTEM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - SEPARATION 400.00 MMBTU/H

COMPANY NAME/SITE LOCATION THE DOW CHEMICAL CO. FREEPORT, TX
BRAZORIA COUNTY

DETERMINATION IS BACT
PERMIT NO. (REGION FILE NO.) PSD-TX-405
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 VACUUM DISTALL. UNITS, GAS	200.00 MMBTU/H EA				
		SO2	0.0270 LB/MMBTU	LIMIT H2S TO 0.10 GR/DSCF	NSPS
		NOX	0.1200 LB/MMBTU	COM. AIR CONT. BY BURN. DESIGN	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 55000.00 BBL/D

COMPANY NAME/SITE LOCATION ASHLAND OIL, INC. LEACH, KY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. C-82-127 SEE NOTE
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)

DATE OF PERMIT ISSUANCE-- 09/21/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CRACKER, REDUCED CRUDE W/2 FB C*	800.00 MMBTU/H				
		PM	68.0000 LB/H		LAER
			298.0000 T/YR		
				FABRIC FILTER	99.70
		CO	300.0000 PPM		BACT
			2234.0000 T/YR		
				AFTER BURNER	98.70
		SO2	250.0000 PPM		LAER
			4260.0000 T/YR		
				DRY LIME INJ.	92.90
		NOX	0.2000 LB/MMBTU		BACT
			713.0000 T/YR		
		VOC	65.0000 T/YR		LAER
				PROCESS CHANGE	66.20

NOTES ----------
NOTE -- C-82-127 WAS NOT A NSR/PSD PERMIT. IT MODIFIED FACILITIES BEING CONSTRUCTED UNDER PERMIT C-80-127 ISSUED 12/01/80 WHIC
H WAS BOTH NSR & PSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS:	INITIAL REVIEW	POST STARTUP
	04/01/1983	02/13/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO. WILMINGTON, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. LA-79-05
DETERMINATION MADE BY EPA REGION IX (AGENCY) LARRY BOWERMAN (AGENCY CONTACT PERSON) (415)-974-8213 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/24/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCC UNIT	30000.00 BBL/D				
		SO2	84.0000 LB/H 2H AV		
			56.0000 LB/H 24H AV		
				SULFUR SCAVENSING ZEOLITE CATALYST	
				DESULFURIZATION OF FEED TO 0.2% S	
ALKYLATION UNIT, HYDROFLUORIC A*	8500.00 BBL/D				
		SO2	230.0000 MG/DSCM H2S		
			0.1000 GR/DSCF		
				SULFUR IN FUEL	
CATALYTIC POLYMERIZATION UNIT	3500.00 BBL/D				
		SO2	230.0000 MG/DSCM H2S		
			0.1000 GR/DSCF		
				SULFUR IN FUEL	

NOTES ----*------
0.2% S FEED. -- FLUIDIZED CATALYTIC CRACKING UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 22.50 MBBL/D

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO. CORPUS CHRISTI, TX
UP RIVER ROAD/SOUTHERN NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE. DATE OF PERMIT ISSUANCE-- 11/13/81
PERMIT NO. (REGION FILE NO.) PSD-TX-408 ESTIMATED DATE OF START-UP--
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COKER HEATER	278.00 MMBTU/H				
		NOX	0.1800 LB/MMBTU	LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0290 LB/MMBTU	0.1 GR/DSCF H2S IN FUEL GAS	NSPS
HEATER, KEROSENE HYDROTREATER C*	24.00 MMBTU/H				
		NOX	0.1200 LB/MMBTU	LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0330 LB/MMBTU	0.1 GR/DSCF H2S IN FUEL GAS	NSPS
HEATER, KEROSENE HYDROTREATER R*	25.00 MMBTU/H				
		NOX	0.1200 LB/MMBTU	LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0320 LB/MMBTU	0.1 GR/DSCF H2S IN FUEL GAS	NSPS
HEATER, MIXED DIST. HYDROTREATE*	49.00 MMBTU/H				
		NOX	0.1200 LB/MMBTU	LOW NOX BURN. & EXCESS AIR	BACT
		SO2	0.0310 LB/MMBTU	0.1 GR/DSCF H2S IN FUEL GAS	NSPS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 6100.00 BBL/D

COMPANY NAME/SITE LOCATION CHEVRON RICHMOND, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 27803
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) JOHN SWANSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/06/81
ESTIMATED DATE OF START-UP-- 1983
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCC	61000.00 BPD				
		PM	10.0000 LB/H		
			240.0000 LB/D		
				2 PARALLEL ESP'S	94.00

NOTES ----------
ESP COST $9600000. FILE A 350-009

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 45.00 MBPSD

COMPANY NAME/SITE LOCATION EXXON CO., USA/BAYWAY REFIN. LINDEN, NJ 07036
1400 PARK AVENUE UNION COUNTY

DETERMINATION IS B/L
PERMIT NO.
DETERMINATION MADE BY EPA REGION II (AGENCY) LARRY KARAS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/27/80
ESTIMATED DATE OF START-UP--
(212)-264-9538 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATER					
		VOC	5.1000 T/YR	O2 ANALYZER/EFFICIENT COMBUSTION	LAER
		NOX	1663.0000 T/YR	CONVENTIONAL BURNERS	BACT
		SO2	195.4000 T/YR	SCRUBBER & SULFUR PLANT .1 GR/DSCF H2S-FLUEGAS/.5% S BY WT. FUEL OIL	BACT
HYDROFINER POWER FORMER					
		VOC	2.5000 T/YR	FURNACE BURNER	LAER
		SO2	4416.6000 T/YR	3 CLAUS & 1 PARSON BEAVON UNITS	BACT
TANKAGE					
		VOC	4.1000 T/YR	EXT. FLOATING ROOF + DOUBLE SEAL EXT. FLOAT. ROOF & 2 SEALS	LAER
FUGITIVE EMISSIONS					
		VOC	203.0000 T/YR	PROPER COMBUSTION PROPER MAINTENANCE	LAER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

NOTES ----------
A NEW 45 MB/SD CATALYTIC REFORMING UNIT (POWER FORMER) WILL UPGRADE OCTANE LEVELS OF VIRGIN AND ICN NAPHTHAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 1480.00 BPSD

COMPANY NAME/SITE LOCATION TEXAS OLEFINS CO. , TX
HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9348
DETERMINATION MADE BY TEXAS ACB (AGENCY) KAREN NEUMANN (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)
DATE OF PERMIT ISSUANCE-- 11/23/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POLYMERIZATION UNIT	1480.00 BPSD				
		VOC	54.8200 T/YR	SEE NOTES	BACT
		NOX	8.4700 T/YR	LOW NOX BURNERS	BACT
		CO	1.2600 T/YR		BACT
		PM	0.3500 T/YR		

NOTES ----------
SIC = 2869. VOC CONTROL PROVIDED BY VAPOR RECOVERY UNIT ON TOADING OPERATIONS/ DIRECTED MAINTENANCE ON VALVES, PUMPS, ETC./ FL ARES FOR UPSET EMISSIONS/ FLOATING ROOFS WITH SECONDARY SEALS ON TANKS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - CONVERSION 20000.00 MBBL/D

COMPANY NAME/SITE LOCATION UNITED REFINING CO. WARREN, PA WARREN COUNTY

DETERMINATION IS B/L FOR A MODIFIED SOURCE.
PERMIT NO. 78PA14
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/25/80
ESTIMATED DATE OF START-UP-- 1980
(215)-597-2711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCC UNIT		SO2	350.0000 LB/H	0.65% S FUEL OIL	BACT
REFORMER HEATER		SO2	65.0000 LB/H	1% S IN FUEL OIL	BACT
CLAUS PLANT		SO2			BACT
REBOILER		SO2	24.0000 LB/H	1% S FUEL OIL	NSPS

NOTES ----------
SO2 EMISSIONS FROM FLUID CATALYTIC CRACKER UNIT, REFORMER HEATER, AND REBOILER IMPACT ON NON-ATTAINMENT AREA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - TREATING

COMPANY NAME/SITE LOCATION ENDEVCO, INC.
ST. HWY 134
FOUKE, AR
MILLER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AR-240M-1
DETERMINATION MADE BY EPA REGION VI (AGENCY)
TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/03/81
ESTIMATED DATE OF START-UP-- 1980
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DIETHANOLAMINE RECONCENTRATOR	60000.00 BTU/H				
		SO2	0.1000 LB/H	FIRING OF NAT GAS	BACT
TRIETHYLENE GLYCOL	60000.00 BTU/H				
		SO2	0.1000 LB/H	FIRING OF NAT. GAS	BACT
INCIN.					
		SO2	460.0000 LB/H	NO CONTROL,USED TO CONTROL H2S	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - TREATING 2.00 MMSCFD

COMPANY NAME/SITE LOCATION OIL INTERNATIONAL LTD OILMONT, MT
TOOLE COUNTY

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY STATE OF MONTANA (AGENCY) HARRY KELTZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/10/83
ESTIMATED DATE OF START-UP--
(406)-449-3454 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR	2.00 MMSCFD				
		SO2	57.0000 LB/H 249.0000 T/YR		BACT
				INCINERATION	0.00

NOTES ----------
50 WEEK/YR OPERATION - PLANT IS IN BASICALLY SAME LOCATION AS OLD PERMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - TREATING

COMPANY NAME/SITE LOCATION PACIFIC REFINING CORP. HERCULES, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 29180
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) LEONARD CLAYTON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/28/83
ESTIMATED DATE OF START-UP-- 1986
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FUEL HANDLING, REFINERY FUEL GA*	500000.00 SCF/H				
		SO2	50.0000 PPM H2S IN FUEL GAS		BACT
				DIGLYCOL AMINE SCRUB SYSTEM	80.00
FURNACE, REFORMING	275.00 MMBTU/H				
		NOX	20.0000 PPM AT 3% O2		BACT
				SCR & NH3 INJECTION	85.00

NOTES ----------
SCR = SELECTIVE CATALYTIC REDUCTION

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - TREATING 5.00 HP

COMPANY NAME/SITE LOCATION TOSCO CORP. MARTINEZ, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27769
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) JIM KARAS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/19/82
ESTIMATED DATE OF START-UP-- 1983
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CENTRIFUGAL PUMPS	5.00 HP	VOC	500.0000 PPM	DOUBLE MECH. SEAL W/HEAVY SEAL OIL	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - FEEDSTOCK 10.80 MMGAL

COMPANY NAME/SITE LOCATION AMOCO OIL CO. WHITING, IN

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. PC (45) 1479
DETERMINATION MADE BY INDIANA APCD (AGENCY) KEN KEARNEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/27/81
ESTIMATED DATE OF START-UP--
(317)-633-0647 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANKS, GASOLINE	5.40 MMGAL	VOC	WELDED TANKS & INT FLOAT ROOFS	LAER

NOTES ----------
2 GASOLINE STORAGE TANKS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
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APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - FEEDSTOCK

COMPANY NAME/SITE LOCATION ARCO PIPELINE CO.
FT. MIFFLIN TERMINAL
TINICUM TOWNSHIP, PA
DELAWARE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 79PA24
DETERMINATION MADE BY EPA REGION III (AGENCY) BOB BLASZCZAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/18/80
ESTIMATED DATE OF START-UP-- 1981
(215)-597-8186 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANKS NO. 1	10.00 MBBL	VOC	0.2700 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 2, 13, 15	100.00 MBBL	VOC	1.6500 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 4, 12	150.00 MBBL	VOC	2.1600 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 9, 10	100.00 MBBL	VOC	1.3200 LB/H	INTERNAL FLOATING ROOFS	BACT
STORAGE TANKS NOS. 11, 14	100.00 MBBL	VOC	1.6100 LB/H	INTERNAL FLOATING ROOFS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

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SOURCE TYPE/SIZE--- PETROLEUM REFINING - FEEDSTOCK

COMPANY NAME/SITE LOCATION VENTECH REFIN. KROTZ SPRINGS, LA 70750
JCT. HWY 190 & RT. 105 ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-278A
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/13/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TANKS, 2EA	120000.00 BBL	VOC	0.8700 LB/H	DOUBLE SEALS	BACT
TANKS, 6EA	55000.00 BBL	VOC	0.0200 LB/H	DOUBLE SEALS	BACT
TANK	25000.00 BBL	VOC	0.3500 LB/H	DOUBLE SEALS	BACT
BARGE LOAD/UNLOAD		VOC	3.0200 LB/H	VAPOR COLLECTION & INCIN. SYS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION ALLIED MATERIALS CORP. STROUD, OK
RT. 66 LINCOLN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-344
DETERMINATION MADE BY EPA REGION VI (AGENCY) BILL TAYLOR (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

DATE OF PERMIT ISSUANCE-- 09/30/81
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
WASTE INCINERATOR/HEAT RECOVERY*	56.00 MMBTU/H	SO2	4.4300 LB/MMBTU NONE APPLICABLE	BACT

NOTES ----------
WASTE INCIN./HEAT RECOVERY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION AMERICAN PETROFINA CO. OF TEXAS , TX
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. SEE NOTE
DETERMINATION MADE BY TEXAS ACB (AGENCY) STUART KEIL (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 01/21/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMBUSTION UNITS					
		NOX	0.1200	LB/MMBTU GAS	
			0.3000	LB/MGAL LIQUID	
				STAGED COMBUSTION	
NEW & EXISTING SRU'S					
		SO2	250.0000	PPM	NSPS
				SCOT TAIL GAS CLEAN-UP	
		H2S		NOTE #2	
				FUG. MONITOR & MAINTEN. FOR H2S PROCESS LEAKS	

NOTES ----------
NOTE -- PERMIT NO. C-9193,9194,9195,9196

NOTE #2 -- MININIZE FUGITIVES

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 05/04/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 130.00 MBPSD

COMPANY NAME/SITE LOCATION AMOCO
5TH AVE. S. TEXAS CITY TEXAS CITY, TX GALVESTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-402
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 12 EA	144.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		SO2	0.0300 LB/MMBTU	GAS FIRED	NSPS
SULFUR RECOVERY UNIT	1000.00 LT/D SULFUR	NOX	13.0000 LB/H	EFFICIENT OPERATION	BACT
		SO2	250.0000 PPM	3-STAGE CLAUS UNIT	NSPS 99.90
SRU FLARE	8.80 MMBTU/H	NOX	0.1200 LB/MMBTU	EFFICIENT OPERATION	BACT
		SO2	0.0300 LB/MMBTU	GAS FIRED	NSPS
HYDROTREATER FLARES, 2	6.10 MMBTU/H EA	NOX	0.1200 LB/MMBTU	EFFICIENT OPERATION	BACT
		SO2	0.0300 LB/MMBTU	GAS FIRED	BACT

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

NOTES ----------
H2S LIMITED TO 0.1 GRAIN/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0020

SOURCE TYPE CODE 5.5

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 50000.00 BPSD

COMPANY NAME/SITE LOCATION AMOCO TEXAS REFINING CO. TEXAS CITY, TX 77490
2401 5TH AVENUE SOUTH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-101
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE--
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE, EXISTING PREHEAT		NOX	56.2000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING REHEAT		NOX	63.2000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING REHEAT		NOX	76.5000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, EXISTING HOT OIL		NOX	47.9000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT
FURNACE, NEW DESULFURIZING		NOX	21.2000 LB/H	LOW NOX/HIGH COMBUST EFF BURN	BACT

NOTES ----------
MODIFIED GASOLINE REFORMER TO PRODUCE GASOLINE OF LOW LEAD CONTENT. INCREASED REFORMER CHARGE RATE FROM 49000 TO 50000 BBL/STR EAM DAY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CALCASIEU REFIN. LAKE CHARLES, LA
CALASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-293
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/22/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 3 EA	160.00 MMBTU/H				
		NOX	0.1100 LB/MMBTU	LOW NOX BURNERS	BACT 35.00
INCIN.	2.00 MMBTU/H				
		NOX	0.1000 LB/MMBTU	LOW NOX BURNERS	BACT 35.00

NOTES ----------
THREE HEATERS AND ONE INCINERATOR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION CAROLINA REFINING & DIST
STATE HWY 21
SAVANNAH, GA
CHATHAM COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. GA 063
DETERMINATION MADE BY GEORGIA EPD (AGENCY) BILL MITCHELL (AGENCY CONTACT PERSON) (404)-656-6900 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/10/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATERS	584.00 MMBTU/H				
		SO2		CLAUS-STRETFORD	NSPS 98.00
		NOX	518.1000 T/YR	GOOD OPERATION PRACTICES	BACT
		VOC	3326.2000 T/YR	GOOD OPERATION PRACTICES	BACT

NOTES ----------
OPERATION PROHIBITED BY STATE AUTHORITY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
1200 SMITH ST., SUITE 1900
HOUSTON, TX 77002
NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-337
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/03/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PLATFORM CHARGE HEATERS, 3	392.00 MMBTU/H				
		SO2	9.9000 LB/H 0.0250 LB/MMBTU	REFIN. GAS REFIN. GAS TRACE H2S	NSPS
		NOX	47.0000 LB/H 0.1200 LB/MMBTU	REFIN. GAS REFIN. GAS AFR CONTROL, LNB	BACT
		SO2	112.7000 LB/H 0.7600 LB/MMBTU	G/O G/O TRACE H2S	NSPS
		NOX	67.3000 LB/H 0.1700 LB/MMBTU	G/O G/O AFR CONTROLS, LNB	BACT
HEATER, PLATFORMER DEPENTANIZER	25.20 MMBTU/H				
		SO2	0.6000 LB/H 0.0250 LB/MMBTU	REFIN. GAS REFIN. GAS TRACE H2S	NSPS
		NOX	3.0000 LB/H 0.1200 LB/MMBTU	REFIN. GAS REFIN. GAS	
		SO2	17.5000 LB/H 0.7600 LB/MMBTU	G/O G/O TRACE H2S	NSPS

NOX	4.4000 LB/H G/O		BACT
	0.1700 LB/MMBTU G/O		
	AFR CONTROLS, LNB		

(CONTINUED) CHAMPLIN PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PLATFORM AROMATIC	20.30 MMBTU/H				
		SO2	0.5000 LB/H	REFIN. GAS	NSPS
			0.0250 LB/MMBTU	REFIN. GAS	
				TRACE H2S	
		NOX	2.4000 LB/H	REFIN. GAS	BACT
			0.1200 LB/MMBTU	REFIN. GAS	
				AFR CONTROL, LNB	
		SO2	13.8000 LB/H	G/O	NSPS
			0.7600 LB/MMBTU	G/O	
				TRACE H2S	
		NOX	3.5000 LB/H	G/O	BACT
			0.1700 LB/MMBTU	G/O	
				AFR CONTROL, LNB	
HEATER, HYDROTREATER CHARGE	47.60 MMBTU/H				
		SO2	1.2000 LB/H	REFIN. GAS	NSPS
			0.0250 LB/MMBTU	REFIN. GAS	
				TRACE H2S	
		NOX	5.7000 LB/H	REFIN. GAS	BACT
			0.1200 LB/MMBTU	REFIN. GAS	
				AFR CONTROL, LNB	
		SO2	33.0000 LB/H	G/O	NSPS
			0.7600 LB/MMBTU	G/O	
				TRACE H2S	
		NOX	8.2000 LB/H	G/O	BACT
			0.1700 LB/MMBTU	G/O	
				AFR CONTROL, LNB	
REBOILER, HYDROTREATER STRIPPER	31.40 MMBTU/H				
		SO2	0.8000 LB/H	REFIN. GAS	NSPS
			0.0250 LB/MMBTU	REFIN. GAS	
				TRACE H2S	
		NOX	3.8000 LB/H	REFIN. GAS	BACT
			0.1200 LB/MMBTU	REFIN. GAS	
				AFR CONTROLS, LNB	
		SO2	2.2000 LB/H	G/O	NSPS
			0.7600 LB/MMBTU	G/O	
				TRACE H2S	
		NOX	5.4000 LB/H	G/O	BACT
			0.1700 LB/MMBTU	G/O	

(CONTINUED) CHAMPLIN PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 3 (FUEL GAS ONLY)	47.00 MMBTU/H EA				
		SO2	1.2000 LB/H		NSPS
			0.0250 LB/MMBTU		
				TRACE H2S	
		NOX	5.6000 LB/H		BACT
			0.1200 LB/MMBTU		
				AFR CONTROL, LNB	
EMERGENCY FLARE	16.00 SCFM				
		SO2	0.1000 LB/H		BACT
				NONE	
		NOX	0.1000 LB/H		BACT
				STEAM INJECTION	

NOTES ----------
FUEL OIL S CONTENT NOT SPECIFIED. PERMITTIE IS REQUIRED TO SAMPLE & ANALYZE S CONTENT OF FUEL OIL AT LEAST ONCE/DAY TO DETERMI NE COMPLIANCE WITH THE ALLOWABLE SO2 EMISSION LIMITS. EMERGENCY FLARE OPERATED ONLY UNDER EMERGENCY CONDITIONS.
WHEN PROCESS GASES ARE VENTED TO FLARE FOR MORE THAN 5 MIN. IN ANY 2 HOUR PERIOD, RECORDS SHALL BE KEPT FOR 2 YEARS FOLLOWING SUCH OCCURANCE. TRACE = <0.10 GR/DSCF. LNB = LOW NOX BURNERS. AFR CONTROLS =AIR/FUEL RATIO CONTROLS. G/O = GAS/OIL MIX.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 7000.00 GPCD

COMPANY NAME/SITE LOCATION CHEVRON USA REF. BASCAGOULA, MS

JACKSON COUNTY

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
PERMIT NO. MS 024
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY) DWIGHT WILEY (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/10/80
ESTIMATED DATE OF START-UP--
(601)-354-2550 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS EQUIPMENT	16000.00 GPCD				
		SO2	0.1000 GR/DSCF	BEAVON S REM. PROC. TAIL GAS LOW SULFUR	NSPS
		NOX	125.0000 PPM GAS	DESIGN	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CHEVRON USA, INC. RICHMOND, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27797
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) JOHN SWANSON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 04/08/82
ESTIMATED DATE OF START-UP-- 1984
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE 4	57.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #5	18.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #6	15.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 4,5,6	
FURNACE #1	12.50 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #2	19.00 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 1,2,3	
FURNACE #3	66.50 MMBTU/H	NOX	40.0000 PPM NO2 AT 3% O2 ONE SCR UNIT ON FURNACES 1,2,3	

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE #7	22.00 MMBTU/H				
		NOX	40.0000 PPM NO2 AT 3% O2	ONE SCR UNIT ON FURN. 7,8,9,10	
FURNACE #8	28.00 MMBTU/H				
		NOX	40.0000 PPM NO2 AT 3% O2	ONE SCR UNIT ON FURN. 7,8,9,10	
FURNACE #9	26.00 MMBTU/H				
		NOX	40.0000 PPM NO2 AT 3% O2	ONE SCR UNIT ON FURN. 7,8,9,10	
FURNACE #10	15.00 MMBTU/H				
		NOX	40.0000 PPM NO2 AT 3% O2	ONE SCR UNIT ON FURN. 7,8,9,10	

NOTES ----------
SCR = SELECTIVE CATALYTIC REDUCTION, FURNACES ARE BURNING REFINERY MAKE GAS OF 1025 BTU/ACF

(M) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CITIES SERVICE CO.
P.O. BOX 1562 LAKE CHARLES, LA 70602

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/18/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REFORMER FURNACE, B-501,502,506*	198.50 MMBTU/H				
		NOX	0.0030 LB/MMBTU 37.6000 LB/H	LOW NOX BURNERS & LEA FIRING	BACT
		VOC	0.0030 LB/MMBTU 0.6000 LB/H	COM. CONT. F. G. O2 METER	BACT
REFORMER FURNACE, B-503,504,505*	536.90 MMBTU/H				
		NOX	0.1900 LB/MMBTU 101.7000 LB/H	LOW NOX BURNERS	BACT
		VOC	0.0030 LB/MMBTU 1.5000 LB/H	COM. CONT. F.G. O2 METER	BACT
C REFORMER, REGEN. VENT		NOX VOC		NONE	
A REFORMER FURNACE, B-102 - 106	93.10 MMBTU/H GAS				
		VOC	0.9000 LB/H 0.0100 MMBTU/H	NONE	BACT

NOX	34.5000 LB/H 0.0400 LB/MMBTU NONE		BACT

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
A REFORMER FURNACE, B-201	64.80 MMBTU/H				
		NOX	14.2000 LB/H 0.0003 LB/MMBTU	NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU	NONE	BACT
A REFORMER FURNACE, B-202	53.00 MMBTU/H				
		NOX	11.6000 LB/H 0.0003 LB/MMBTU	NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU	NONE	BACT
B REFORMER FURNACE, B-401	60.40 MMBTU/H				
		NOX	13.2000 LB/H 0.0003 LB/MMBTU	NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU	NONE	BACT
B REFORMER FURNACE, B-406	57.30 MMBTU/H				
		NOX	12.6000 LB/H 0.0003 LB/MMBTU	NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU	NONE	BACT
B REFORMER FURNACE, B-402	55.90 MMBTU/H				
		NOX	12.2000 LB/H 0.0003 LB/MMBTU	NONE	BACT
		VOC	0.2000 LB/H 0.0030 LB/MMBTU	NONE	BACT

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
B REFORMER FURNACE, B-403,404,4*	330.00 MMBTU/H				
		NOX	50.8000 LB/H		BACT
			0.2200 LB/MMBTU		
				NONE	
		VOC	2.3000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	
COKER FURNACE, B-101	108.20 MMBTU/H				
		NOX	23.7000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	
		VOC	0.3000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	
COKER FURNACES, B-201	82.40 MMBTU/H				
		NOX	18.0000 LB/H		BACT
			0.2200 LB/MMBTU		
				NONE	
		VOC	0.2000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	
TOPPER FURNACE, B-2C	65.90 MMBTU/H				
		NOX	14.4000 LB/H		BACT
			0.2200 LB/MMBTU		
				NONE	
		VOC	0.2000 LB/H		BACT
			0.0030 LB/MMBTU		
				NONE	
POWER HOUSE BOILER, B-3, B-3B	173.00 MMBTU/H GAS				
		NOX	60.5000 LB/H		BACT
			0.0050 LB/MMBTU		
				NONE	
		VOC	0.9000 LB/H		BACT
			0.0050 LB/MMBTU		
				NONE	

(CONTINUED) CITIES SERVICE CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER HOUSE BOILER, B-A3,3C	173.00 MMBTU/H	NOX	60.5000 LB/H 0.3500 LB/MMBTU	NONE	BACT
		VOC	0.9000 LB/H 0.0050 LB/MMBTU	NONE	BACT
TANKAGE		VOC	581.7000 LB/H	BACT FOR FUGITIVE HC	BACT
REFINERY, MSC. SOURCES		VOC	291.0000 LB/H	BACT FOR FUGITIVE HC	BACT
COMPLEX COOLING TOWERS		VOC	234.4000 LB/H	BACT FOR FUGITIVE HC	BACT

NOTES ----------
REFINERY MODIFICATIONS INCLUDE: INSTALLATION OF NEW "C" REFORMER, REVISION OFREFINERY FUEL BALANCE, INSTALLATION OF AIR PREHEA
T AND FLUE GAS WASTE HEAT BOILERS FOR EMERGENCY CONSERVATION, CRUDE DISTILLATION COLUMN MODIFICATION,
AND CONVERSION OF CONE ROOF TANKS TO INTERNAL FLOATING PANS.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CLARK OIL CO., WOOD RIVER REFIN. HARTFORD, IL 62048
P.O. BOX 7 MADISON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 81060081
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/25/81
ESTIMATED DATE OF START-UP-- 1986
(217)-782-2113 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	...& BASIS ... PCT EFF
PROCESS HEATERS		NOX	389.3000 T/YR	LOW NOX BURNERS	
		SO2	1.0000 LB/MMBTU	BURNING BYPRODUCT GAS WITH OIL	
		PM	92.9000 T/YR		
		CO	55.5000 T/YR		
STORAGE TANKS		VOC	70.2000 T/YR		

NOTES ----------
NOX EMISSION LIMIT ON PROCESS HEATERS WILL BE SPECIFIED UPON SUBMISSION OF DETAILED ENGINEERING SPECIFICATIONS.

ALSO PERMIT NUMBER 119 050 AAA.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION CLARK OIL, MT. AIRY REFINERY GARYVILLE, LA
ST. JOHN BAPTIST PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-LA-392
DETERMINATION MADE BY LAQD/EPA REGION VI (AGENCY) BHARAT CONTRACTOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/22/83
ESTIMATED DATE OF START-UP--
(504)-342-8940 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECOVERY UNIT, SULFUR	12.00 LT/D				
		SO2	50.0000 LB/H		B/A
				CATALYTIC AFTER BURNER	96.00

NOTES ----------
NSPS NOT APPLICABLE

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 225.00 MBPSD

COMPANY NAME/SITE LOCATION COASTAL STATES PETROLEUM
P.O. DRAWER 521
CORPUS CHRISTI, TX 78043
NUECES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-243
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/14/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCIN.	15.70 MMBTU/H				
		NOX	2.3000 LB/H 0.1500 LB/MMBTU	LEA FIRING	BACT
		CO	0.3000 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
HEATER, COKER CHARGE	113.00 MMBTU/H				
		NOX	13.6000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	2.0400 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
HEATER, FCCU FEED	65.00 MMBTU/H				
		NOX	7.8000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.1700 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REBOILER, ISOSTRIPPER	89.00 MMBTU/H				
		NOX	10.7000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.6000 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
GAS OIL HDS HEATER	73.00 MMBTU/H				
		NOX	8.8000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	1.3100 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
REBOILER, GAS OIL HDS	36.00 MMBTU/H				
		NOX	4.3000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.6500 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
REBOILER, CRUDE UNIT	55.00 MMBTU/H				
		NOX	6.6000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.9900 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT
HEATER, VACUUM CHARGE	51.00 MMBTU/H				
		NOX	5.4000 LB/H 0.1200 LB/MMBTU	LEA FIRING/LOW NOX BURNERS	BACT
		CO	0.9200 LB/H 0.0200 LB/MMBTU	LEA FIRING	BACT

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE CHARGE	45.00 MMBTU/H				
		NOX	5.4000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.8100 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, TAIL GAS UNIT	6.30 MMBTU/H				
		NOX	0.8000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.1100 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, REFORMER	123.00 MMBTU/H				
		NOX	14.8000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	2.2200 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, NAPTHA HDS	35.00 MMBTU/H				
		NOX	4.2000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.6300 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, KEROSENE HDS	16.30 MMBTU/H				
		NOX	2.0000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.2900 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REBOILER, KEROSENE HDS	12.50 MMBTU/H				
		NOX	1.5000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.2300 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
HEATER, DIESEL HDS	9.10 MMBTU/H				
		NOX	1.1000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.1600 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
REBOILER, DESIEL HDS	10.30 MMBTU/H				
		NOX	1.2000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	0.1800 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
BOILER, UTILITY	88.00 MMBTU/H				
		NOX	10.6000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	1.6000 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	
BOILER, UTILITY	88.00 MMBTU/H				
		NOX	10.6000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING/LOW NOX BURNERS	
		CO	1.6000 LB/H		BACT
			0.0200 LB/MMBTU		
				LEA FIRING	

(CONTINUED) COASTAL STATES PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REGENERATOR, FCCU					
		NOX	160.0000 LB/H	NONE	BACT
		CO	103.9000 LB/H	HIGH TEMP. REGENERATION	BACT

NOTES ----------
CAPACITY INCREASE FROM 185 TO 225 MBPSD.

INITIAL REVIEW POST STARTUP
(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE. REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 12000.00 BPSD

COMPANY NAME/SITE LOCATION CONOCO, INC. WESTLAKE, LA
LAKE CHARLES REFIN. CALCASIEU PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-419 DATE OF PERMIT ISSUANCE-- 10/08/81
DETERMINATION MADE BY EPA REGION VI JOHN BENHAM ESTIMATED DATE OF START-UP-- 1982
(AGENCY) (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HDS CHARGE	39.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT
REBOILER, HDS STRIPPER	39.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, REFORMER CHARGE	52.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, INTERMED	46.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT
HEATER, INTERMED	37.00 MMBTU/H	NOX	0.1200 LB/MMBTU	LOW NOX BURNERS LOW EXCESS AIR	BACT

[redacted]

[redacted]	[redacted]	[redacted]	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... # BASIS ... PCT EFF
[redacted]	[redacted]	[redacted]		
		400	0.1250 LB/MMBTU LOW NOX BURNERS LOW EXCESS AIR	BACT

[redacted]

[redacted]

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983
SOURCE TYPE CODE 5.5

[illegible] -- [illegible] SOURCE LISTING

05/22/1984

[illegible] -- [illegible] - [illegible] 100000.00 BBL/D

[illegible] [illegible] WESTLAKE, LA
[illegible] CALCASIEU PARISH

[illegible]
[illegible]
[illegible] TOM [illegible]
([illegible]) ([illegible] CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/10/81
ESTIMATED DATE OF START-UP-- 1983
(214)-767-1594
(PHONE)

[illegible]	[illegible]	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[illegible]	[illegible]	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT
[illegible]	[illegible]	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT
[illegible]	[illegible]	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT
[illegible]	[illegible]	NOX	0.1200 LB/MMBTU LOW NOX BURNER LOW EXCESS AIR	BACT

[illegible]
[illegible]

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

[illegible] [illegible] FOR THIS TABLE.

[illegible] [illegible] LA-[illegible] SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 40000.00 BBL/D

COMPANY NAME/SITE LOCATION CRA,INC. COFFEYVILLE, KS
MONTGOMERY COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/04/80
ESTIMATED DATE OF START-UP--
(816)-374-6525
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, UNIT [illegible]	[illegible] MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT
HEATER, UNIT [illegible]	[illegible] MMBTU/H	NOX	0.1500 LB/MMBTU	BACT
HEATER, UNIT [illegible]	[illegible] MMBTU/H	NOX	0.1600 LB/MMBTU CONVENT. BURN W/AIR PREHEAT	BACT
HEATER, UNIT [illegible]	[illegible] MMBTU/H	NOX	0.1310 LB/MMBTU LOW NOX BURNERS	BACT
HEATER, UNIT [illegible]	[illegible] MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT
HEATER, UNIT [illegible]	[illegible] MMBTU/H	NOX	0.1300 LB/MMBTU LOW NOX BURNERS	BACT

NOTES --------
[illegible] ON JULY 6, 1981. SIZE IS REFINERY CAPACITY. UNITS 41 & 42 EQUIPPED WITH CONVENTIONAL BURNERS.

(*) INDICATES DATA WAS TRANSFERRED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

[illegible] -- DETAILED SOURCE LISTING

05/22/1984

[illegible] PETROLEUM REFINING - AUXILIARY 30000.00 BBL/D

[illegible] EXPRESS REFINING CO., HILL PETROLEUM CO. KROTZ SPRINGS, LA

ST. LANDRY PARISH

[illegible] DATE OF PERMIT ISSUANCE-- 01/03/84
[illegible] ESTIMATED DATE OF START-UP-- 1982
[illegible] LAND/EPA REGION VI (AGENCY) BHARAT CONTRACTOR (AGENCY CONTACT PERSON) (504)-342-8940 (PHONE)

[illegible]	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[illegible]	[illegible]				
		NOX	15.3200 LB/W	COMB. CONTRL W/O2 MONITOR	BACT
		VE	20.0000 % OPACITY	COMB. CONTRL W/O2 MONITOR	BACT
[illegible]	[illegible]				
		NOX	17.5100 LB/W	COMB. CONTRL W/O2 MONITOR	BACT
		VE	20.0000 % OPACITY	COMB. CONTRL W/O2 MONITOR	BACT

[illegible]
[illegible] BOILERS HAVE THE SAME RATED HEAT INPUT, HOWEVER, THE EMISSION RATES FOR NO [illegible]

[illegible] INITIAL REVIEW POST STARTUP
[illegible] REVIEW STATUS:

[illegible] ID NUMBER LA-0027A SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[redacted]: PETROLEUM REFINERY - AUXILIARY 65000.00 BBL/D

[redacted]: PHILLIPS PETROLEUM CORP. AMARILLO, TX 77173
P.O. BOX 651 MOORE COUNTY

[redacted] DATE OF PERMIT ISSUANCE-- 09/04/81
[redacted] ESTIMATED DATE OF START-UP--
[redacted]: [redacted] JOHN DUNFAE (214)-767-1594
(AGENCY) (AGENCY CONTACT PERSON) (PHONE)

[redacted]	[redacted]	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted]	[redacted]				
		SO2	103.6700 LB/H	SCRUB FUEL 6./.7% S FUEL OIL	B/H
		NOX	130.0000 LB/H	LOW NOX BURNERS	BACT
		CO	6.8100 LB/H	EFFICIENT COMBUSTION	BACT
		PM	10.0600 LB/H	SCRUB FUEL 6./.7% FUEL OIL	BACT
[redacted]	[redacted]				
		SO2	931.9000 LB/H	NONE	BACT
		NOX	24.4000 LB/H	HIGH TEMP REGENERATION	BACT
		CO	198.0000 LB/H	HIGH TEMP RENERATION	BACT
		PM	22.7000 LB/H	ESP	BACT 98.80

[redacted]

[redacted] INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

[redacted] ED NUMBER TX-0034 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[illegible] PETROLEUM REFINING - AUXILIARY

[illegible] EXXON CHEMICAL AMERICAS BAYTOWN, TX 77520

HARRIS COUNTY

[illegible]

DATE OF PERMIT ISSUANCE-- 07/30/81
ESTIMATED DATE OF START-UP-- 1984
(214)-767-1594
(PHONE)

[illegible] TOM DIGGS
(AGENCY CONTACT PERSON)

[illegible]	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[illegible]	[illegible]	NOX	0.2300 LB/MMBTU CONTROL OF EXCESS OXYGEN	BACT

[illegible]
[illegible] BUT EXXON PROVIDED INFORMATION ON THE HEATER DESIGN AND TEST DATA ON SIMILIAR [illegible]

[illegible]

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

[illegible] ID NUMBER TX-0046 SOURCE TYPE CODE 5.5

[redacted] PETROLEUM REFINERIES - AUXILIARY

[redacted] CONTRA COSTA, USA BENICIA, CA

[redacted]
[redacted]
[redacted] BAY AREA AQMD (AGENCY) LEONARD CLAYTON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/10/80
ESTIMATED DATE OF START-UP-- 1982
(415)-771-6000 (PHONE)

[redacted] TO THIS ASPECT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted]	[redacted]	NOX	40.0000 PPM AT 3% O2 287.0000 LB/D	LOW NOX BURNERS & THERMAL DE-NOX	70.00

[redacted]
[redacted]

[redacted]

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

[redacted]

ID NUMBER CA-0087

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[redacted] PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

[redacted] [redacted] HOUSTON, TX
[redacted] HARRIS COUNTY

[redacted] DATE OF PERMIT ISSUANCE-- 06/30/81
[redacted] ESTIMATED DATE OF START-UP--
JOHN DUNYAK (214)-767-1594
(AGENCY CONTACT PERSON) (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted]	[redacted]	PM	0.0042 LB/MMBTU	GAS FIRED	BACT
		SO2	0.0224 LB/MMBTU	REFINERY GAS FIRED	NSPS
		NOX	0.1000 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0142 LB/MMBTU	EFFICIENT COMBUSTION	BACT
[redacted]	[redacted]	PM	0.0042 LB/MMBTU	GAS FIRED	BACT
		SO2	0.0114 LB/MMBTU	REFINERY GAS FIRED	NSPS
		NOX	0.1000 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0142 LB/MMBTU	EFFICIENT COMBUSTION	BACT
[redacted]		SO2	9.1500 LB/H	CLAUS PLANT	BACT 99.00

[redacted]

[illegible]

[illegible] THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[illegible]				
[illegible]	PM	24.0000 LB/H	ESP (0.85 LB/MLB OF COKE)	BACT
	SO2	48.0000 LB/H	SULFUR REDUCTION CAT.	NSPS 75.00
	NOX	183.5000 LB/H	NO CONTROL	BACT
	CO	175.5000 LB/H	COBOILER (500PPM)	NSPS

[illegible]

[illegible] ENTER DATA AND TRUNCATE FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

[illegible]

ID NUMBER TX-0022

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

[redacted] PETROLEUM REFINING - AUXILIARY 350.00 MMBTU/H

[redacted] KERN OIL CO.
ROUTE 1, BOX 197-A
BAKERSFIELD, CA 93308

[redacted] DATE OF PERMIT ISSUANCE-- 08/24/82
ESTIMATED DATE OF START-UP--
EPA REGION IX (415)-974-8235
(AGENCY) JOE SLAMOVICH (AGENCY CONTACT PERSON) (PHONE)

[redacted]	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[redacted]	248.00 BBL/D	NOX	0.1500 LB/MMBTU PER GEN. AMMONIA INJECTION	63.00

[redacted]

INITIAL REVIEW POST STARTUP
[redacted] REVIEW STATUS: 04/01/1983 04/04/1984

[redacted] ID NUMBER CA-0830 SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION GOOD HOPE REFIN., INC.
P.O. BOX 126, 257 PROSPECT AVE

GOOD HOPE, LA 70079
ST. CHARLES PARISH

INFORMATION IS SAFE FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VI (AGENCY)

JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594
(PHONE)

PROCESSOR SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STRIPPER REBOILER	24.00 MMBTU/H			
		PM	0.3000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	3.1000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.4000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT
REFORMER STABILIZER	24.00 MMBTU/H			
		PM	0.3000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	3.1000 LB/H 0.1200 LB/MMBTU	BACT

		LOW NOX BURNERS, LEA FIRING		
CO	0.4000	LB/H		BACT
	0.0140	LB/MMBTU		
		COMBUSTION CONTROL		

[illegible] SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
[illegible]	[illegible] MMBTU/H				
		PM	3.4000 LB/H 0.0110 LB/MMBTU	GASEOUS FUEL	BACT
		SOX	6.1000 LB/H 0.0190 LB/MMBTU	0.10 GRAIS/DSCF	NSPS
		NOX	30.0000 LB/H 0.1200 LB/MMBTU	LOW NOX BURNERS, LEA FIRING	BACT
		CO	4.9000 LB/H 0.0140 LB/MMBTU	COMBUSTION CONTROL	BACT
[illegible] FURNACE	[illegible] MMBTU/H				
		PM	0.5000 LB/H 0.0110 LB/MMBTU	GASEOUS FUEL	BACT
		SOX	0.9000 LB/H 0.0190 LB/MMBTU	0.10 GRAIS/DSCF	NSPS
		NOX	5.4000 LB/H 0.1200 LB/MMBTU	LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.6000 LB/H 0.0140 LB/MMBTU	COMBUSTION CONTROL	BACT
[illegible] FURNACE	[illegible] MMBTU/H				
		PM	0.4000 LB/H 0.0110 LB/MMBTU	GASEOUS FUEL	BACT
		SOX	0.7000 LB/H 0.0190 LB/MMBTU	0.10 GRAIS/DSCF	NSPS
		NOX	4.7000 LB/H 0.1200 LB/MMBTU	LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.4300 LB/H 0.0140 LB/MMBTU		BACT

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PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM COLUMN FURNACE	244.00 MMBTU/H			
		PM	2.6000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	4.7000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	29.3000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	3.5000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT
DEMEX HEATER	25.00 MMBTU/H			
		PM	0.3000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.5000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	3.0000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.4000 LB/H 0.0140 LB/MMBTU COMBUSTION CONTROL	BACT
VISEBREAKING FURNACE, 3 EA	40.00 MMBTU/H			
		PM	0.4000 LB/H 0.0110 LB/MMBTU GASEOUS FUEL	BACT
		SO2	0.8000 LB/H 0.0190 LB/MMBTU 0.10 GRH2S/DSCF	NSPS
		NOX	4.8000 LB/H 0.1200 LB/MMBTU LOW NOX BURNERS, LEA FIRING	BACT
		CO	0.6000 LB/H 0.0140 LB/MMBTU	BACT

(CONTINUED) GOOD HOPE REFIN., INC.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGENERATOR	82000.00 BBL/D				
		PM	64.9000 LB/H	THIRD-STAGE CYCLONE SEPARATOR	NSPS 95.00
		SO2	761.7000 LB/H	SULFUR REDUCTION CATALYST	BACT
		NOX	242.6000 LB/H	LEA FIRING	BACT
		CO	138.6000 LB/H	COMBUSTION CONTROL	NSPS
SULFUR PLANT INCIN.					
		SO2	12.8000 LB/H	TAIL-GAS TREATMENT (SCOT)	NSPS 98.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION GULF OIL CO.
20 M SE BEAUMONT H 73 PORT ARTHUR, TX 77640
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-214
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/13/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 4 EA	425.00 MMBTU/H				
		NOX	0.3000 LB/MMBTU	AIR/FUEL RATIO	BACT
		SO2	0.5800 LB/MMBTU	LOW SULFUR FUEL (.5 % S)	NSPS
		CO	0.0370 LB/MMBTU	EFFICIENT COMBUSTION	BACT
		PM	0.0580 LB/MMBTU	EFFICIENT COMBUSTION	BACT
TREATING UNIT, SCOT TAIL GAS					
		SO2	70.4000 LB/H	DESULFURIZED FUEL	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION GULF OIL CO.
P.O. BOX 701
PORT AURTHER, TX 77640
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-342
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/21/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SOLVENT EXTRACTION UNIT #1843	122.30 MMBTU/H				
		SO2	2.0000 LB/H 0.0200 LB/MMBTU	NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	14.6700 LB/H 0.1200 LB/MMBTU	LEA CONTROLS, LNB	BACT
LUBE VACUUM UNIT #147	124.30 MMBTU/H				
		SO2	72.3000 LB/H 0.6000 LB/MMBTU	NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	37.3000 LB/H 0.3000 LB/MMBTU	LEA CONTROLS, LNB	BACT
GULFINING UNIT #243	66.70 MMBTU/H				
		SO2	38.3000 LB/MMBTU 0.6000 LB/H	NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	20.0000 LB/H 0.3000 LB/MMBTU	LEA CONTROLS, LNB	BACT

(CONTINUED) GULF OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CATALYTIC DEWAXING UNIT #1944	20.00 MMBTU/H				
		SO2	11.6000 LB/H 0.6000 LB/MMBTU	NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	6.0000 LB/H 0.3000 LB/MMBTU	LEA CONTROLS, TRACE H2S	BACT
SULFUR RECOVERY UNIT #544	15.70 MMBTU/H				
		SO2	45.0000 LB/H	NAT. GAS FIRED	NSPS 99.90
		NOX	1.9000 LB/H	LEA CONTROLS, LNB	BACT
SOLVENT DEWAXING UNIT	100.10 MMBTU/H				
		SO2	3.0000 LB/H 0.0300 LB/MMBTU	NAT. GAS/REFIN. GAS, TRACE H2S	NSPS
		NOX	67.4000 LB/H 0.6700 LB/MMBTU	NONE	BACT
SOLVENT DEWAXING UNIT #1943	35.60 MMBTU/H				
		SO2	1.1000 LB/H 0.0300 LB/MMBTU	REFIN. GAS/NAT. GAS, TRACE H2S	NSPS
		NOX	23.9000 LB/H 0.6700 LB/MMBTU	NONE	BACT
GULFINING UNIT #244	60.00 MMBTU/H				
		SO2	34.9000 LB/H 0.6000 LB/MMBTU	0.5% S IN OIL	NSPS
		NOX	18.0000 LB/H 0.3000 LB/MMBTU	LEA CONTROL, LNB	BACT

(CONTINUED) GULF OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DELAYED COKING UNIT	116.00 MMBTU/H				
		SO2	3.5000 LB/H		
			0.0200 LB/MMBTU		NSPS
				TRACE H2S	
		NOX	13.9000 LB/H		
			0.1200 LB/MMBTU		BACT
				LEA FIRING, LNB	

NOTES ----------
SOLVENT DEWAXING UNIT #1943: CHANGE FUEL TYPE FROM REFINERY GAS ONLY TO REFINERY GAS/NATURAL GAS. LNB -- LOW NOX BURNERS. TRAC
E H2S -- <0.10 GR H2S/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION HAWAIIAN INDEPEN. REFIN. EWA BEACH, HI

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) HI 81-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) DENNIS BEAUREGARD (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/18/81
ESTIMATED DATE OF START-UP--
(415)-974-8236 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE OIL, #4	110.00 MMBTU/H				
		NOX	0.4000 LB/MMBTU	LOW NOX BURNERS	
		SO2	60.0000 LB/MMBTU	0.5% S #6 FUEL OIL	
		PM	6.1000 LB/H	0.5% S #6 FUEL OIL	
REFORMER FURNACE, H2 GEN. PLANT	125.00 MMBTU/H				
		NOX	0.1700 LB/MMBTU	LOW NOX BURNERS	
		SO2	2.4000 LB/H	BURN REF GAS - 0.1 GR H2S/DSCF	
		PM	1.4000 LB/H	NONE	

NOTES ----------
BACT IS DETERMINED BY TECHNOLOGY AND ECONOMICS. FACILITY EXPANSION FROM 95000 BBL/DAY TO 125000 BBL/DAY BY INSTALLATION OF A H EATER AND HYDROGENATION PLANT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 2.00 MMSCFD

COMPANY NAME/SITE LOCATION HIGH PRAIRIE ENERGY CO. NEAR CUT BANK, MT

TOOELE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 09/05/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR	2.00 MMSCFD				
		SO2	65.0000 LB/H	INCINERATION	BACT 0.00

NOTES ----------
4 YEAR PERMIT LIMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 66550.00 BPSD

COMPANY NAME/SITE LOCATION HILL PETROLEUM KROTZ SPRINGS, LA 70750
KROTZ SPRINGS TERMIN ST. LANDRY PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-286A
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/10/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER	146.00 MMBTU/H	VOC	0.0020 LB/MMBTU	EFFICIENT COMBUSTION	BACT
HEATER	31.00 MMBTU/H	VOC	0.0020 LB/MMBTU	EFFICIENT COMBUSTION	BACT
TANKS, 11 EA	80000.00 BBL	VOC	2.4200 LB/H	DOUBLE SEALS	BACT
TANKS, 4 EA	100000.00 BBL	VOC	2.5800 LB/H	DOUBLE SEALS	BACT
TANKS, 2 EA	150000.00 BBL	VOC	7.3200 LB/H	DOUBLE SEALS	BACT
LOADING DOCK WASTEWATER		VOC	3.8200 LB/H	MAINTENANCE PROGRAM	BACT

(CONTINUED) HILL PETROLEUM

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SEPARATOR					
PUMP SEALS		VOC	0.3100 LB/H	MAINTENANCE PROGRAM	BACT
VALVES & FLANGES		VOC	0.6500 LB/H	MAINTENANCE PROGRAM	BACT
RELIEF VALVES		VOC	7.7200 LB/H	MAINTENANCE PROGRAM	BACT
COMPRESSOR SEALS		VOC	1.2000 LB/H	MAINTENANCE PROGRAM	BACT
		VOC	0.1900 LB/H	MAINTENANCE PROGRAM	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION HYDROCARBON RECYCLERS, INC. TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. T81-15 & T82-101
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) JIM VAN SANDT (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/14/82
ESTIMATED DATE OF START-UP-- 1982
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ATMOS. & VACUUM DISTIL. USED OI*	500000.00 GAL/YR	VOC	13.0000 T/YR	INCIN. IN OIL PREHEAT FURNACE	98.00
DISTIL. OF CHLORINATED HC	150000.00 GAL/YR	VOC		CLOSED SYS-DISTIL. UNIT & TANKAGE-2"H2O PRV	99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 50.00 MBPSD

COMPANY NAME/SITE LOCATION INDEPENDENT REFIN. WINNIE, TX
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-388
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 6	96.50 MMBTU/H	NOX	0.1100 LB/MMBTU	LOW NOX BURNERS	NSPS
REBOILER	14.40 MMBTU/H	NOX	0.1100 LB/MMBTU	LOW NOX BURNERS	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 404.00 LT/D

COMPANY NAME/SITE LOCATION KOCH REFINING CO. ROSEMOUNT, MN

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 106-81-1-19
DETERMINATION MADE BY MINNESOTA PCA (AGENCY) AHTO NIEMIOJA (AGENCY CONTACT PERSON) (612)-296-7718 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/18/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CLAUS SULFUR RECOVERY UNIT #3	170.00 LT/D				
		SO2	250.0000 PPM	TAIL GAS SCRUBBER	NSPS 99.85

NOTES ----------
THE EMISSION LIMIT IS BASED ON NSPS AVERAGING TIMES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/19/1984 INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 404.00 LT/D

COMPANY NAME/SITE LOCATION KOCH REFINING CO. ROSEMOUNT, MN

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 106A-83-I-23
DETERMINATION MADE BY MINNESOTA PCA (AGENCY) AHTO NIEMIOJA (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/25/83
ESTIMATED DATE OF START-UP-- 1983
(612)-296-7718 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CLAUS SULFUR RECOVERY UNIT #4	234.00 LT/D				
		SO2	150.0000 PPM	TAIL GAS SCRUBBER	99.85

NOTES ----------
THE EMISSION LIMIT IS BASED ON NSPS AVERAGING TIMES. A CONTINOUS EMISSION MONITORING SYSTEM WILL BE USED TO VERIFY COMPLIANCE OF COMBINED SRU 3 & 4 GASES AS A 30 D ROLLING AVERAGE AT 200 PPM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

ID NUMBER MN-0008A

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 30000.00 BPSD

COMPANY NAME/SITE LOCATION LONGVEIW REFIN. LONGVIEW, TX
5 KM SW POST OFFICE GREGG COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-364
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/08/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCC REGENERATOR	15000.00 BBL/D				
		PM	10.6000 LB/H	ESP	BACT
		SO2	190.3000 LB/H	S REDUCTION CATAYLST	NSPS 75.00
		NOX	32.7000 LB/H	NONE	BACT
		CO	79.5000 LB/H	HIGH TEMP REGENERATION	BACT
TURBINE, 3	6275.00 HP				
		PM	0.0700 G/HP-H	REF. FUEL GAS	BACT
		SO2	0.1200 G/HP-H	REF. FUEL GAS	BACT
		NOX	1.3000 G/HP-H		BACT
		CO	0.4900 G/HP-H	EFFICIENT COMBUSTION	NSPS
HEATERS, 25	80.60 MMBTU/H				
		PM	0.0100 LB/MMBTU	FUEL GAS/LOW S OIL	BACT
		SO2	0.0270 LB/MMBTU	FUEL GAS/LOW S OIL	NSPS

NOX	0.1200	LB/MMBTU LOW NOX BURNERS	BACT
CO	0.0200	LB/MMBTU EFFICIENT COMBUSTION	BACT

(CONTINUED) LONGVEIW REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 2	74.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	FUEL GAS	BACT
		SO2	0.0270 LB/MMBTU	FUEL GAS	BACT
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0200 LB/MMBTU	EFFICIENT COMBUSTION	BACT
SULFUR RECOVERY UNIT	40.00 T/D				
		SO2		3 STAGE CLAUS PLANT	NSPS 99.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MARATHON OIL CO. ROBINSON, IL
CRAWFORD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. C 8005034
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/01/80
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS	250.00 MMBTU/H MAX				
		SO2	1.0000 LB/MMBTU	H2S FUEL LIM :0.10 GR/DSCF	
		NOX	0.3000 LB/MMBTU	LOW NOX BURNERS	
		PM	0.1000 LB/MMBTU		
HEATER	250.00 MMBTU/H MAX				
		SO2	0.8000 LB/MMBTU		
		NOX	0.3000 LB/MMBTU	LOW NOX BURNERS	
		PM	0.1000 LB/MMBTU		

NOTES ----------
SO2 EMISSION LIMIT TO BE MET WITH REFINERY GAS, RESID. OIL, OR ANY COMBINATION. H2S IN FUEL GAS LIMITED TO 0.1 GR/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION MARATHON OIL CO.
P.O. BOX 1191 TEXAS CITY, TX 77590
GALVESTON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-241
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/03/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE	175.00 MMBTU/H				
		NOX	36.7400 LB/H NAT GAS		
			0.2200 LB/MMBTU NAT GAS	LOW NOX BURN./LEA FIRING	BACT
		SO2	4.3000 LB/H NAT GAS		
			0.0260 LB/MMBTU NAT GAS	<0.1 GR H2S/DSCF	NSPS
		NOX	52.5000 LB/H FUEL OIL		
			0.3000 LB/MMBTU FUEL OIL	LOW NOX BURN/LEA FIRING	BACT
		SO2	115.8000 LB/H FUEL OIL		
			0.6600 LB/MMBTU FUEL OIL	0.6% S FUEL OIL	NSPS

NOTES ----------
REPLACES AN EXISTING CRUDE HEATER FIRING REFINERY GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

ID NUMBER TX-0065

SOURCE TYPE CODE 5.5

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 70000.00 BBL/D

COMPANY NAME/SITE LOCATION NATIONAL COOP. REFIN. ASSOC. MCPHERSON, KS
MCPHERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VII (AGENCY) DANIEL RODRIGUEZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/17/81
ESTIMATED DATE OF START-UP--
(816)-374-6525 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATER, UNIT HF-009	64.00 MMBTU/H	NOX	0.1500 LB/MMBTU MAX	LOW EXCESS AIR	BACT
PROCESS HEATER, UNIT HF-010	64.00 MMBTU/H	NOX	0.1500 LB/MMBTU MAX	LOW EXCESS AIR	BACT
PROCESS HEATER, UNIT HP-012	32.90 MMBTU/H	NOX	0.1500 LB/MMBTU MAX	LOW EXCESS AIR	BACT

NOTES ----------
REFINERY BEING MODIFIED TO ALLOW PROCESSING OF HIGH SULFUR CRUDES (SCC PROJECT). CAPACITY TO BE INCREASED FROM 57000 TO 70000 BBL/D. SOURCE SIZE IS REFINERY CAPACITY.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 35.00 MBPSD

COMPANY NAME/SITE LOCATION NEDERLAND PROCESSING CO.
P.O. BOX 1567
NEDERLAND, TX 77627
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. TX-262
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/31/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM UNIT FURNACE	150.00 MMBTU/H				
		PM	7.9000 LB/H OIL 0.0530 LB/MMBTU OIL	LIQUID OR GASEOUS FUEL	BACT
		SO2	70.0000 LB/H OIL 0.4670 LB/MMBTU OIL	0.42% S OIL	BACT
		NOX	45.0000 LB/H OIL 0.3000 LB/MMBTU OIL	LEA FIRING	BACT
		CO	5.5000 LB/H OIL 0.0370 LB/MMBTU OIL	COMBUSTION CONTROLS	LAER
		VOC	1.1000 LB/H OIL 0.0070 LB/MMBTU OIL		BACT
		PM	2.0000 LB/H GAS 0.0130 LB/MMBTU GAS	LIQUID OR GASEOUS FUEL	NSPS
		SO2	3.5000 LB/H GAS 0.0230 LB/MMBTU GAS	0.1% GR H2S/DSCF	BACT
		NOX	18.0000 LB/H GAS		

	0.1200	LB/MMBTU GAS	
		LEA FIRING	
CO	2.3000	LB/H GAS	BACT
	0.0150	LB/MMBTU GAS	
		COMBUSTION CONTROLS	
VOC	0.4000	LB/H GAS	BACT
	0.0070	LB/MMBTU GAS	

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGEN					
		PM	8.4000 LB/H		NSPS
			1.0000 LB/MLB COKE		
				ESP	95.00
		SO2	42.7000 LB/H		BACT
				S REDUCTION CATALYST	75.00
		NOX	31.5000 LB/H		BACT
				LEA FIRING	
		CO	73.5000 LB/H		NSPS
			500.0000 PPMV, LESS THAN		
				COMBUSTION CONTROL	
		VOC	7.9000 LB/H		BACT
ISOSTRIPPER REBOILER	90.00 MMBTU/H				
		PM	4.7000 LB/H OIL		BACT
			0.0520 LB/MMBTU OIL		
				LIQUID OR GASEOUS FUEL	
		SO2	42.0000 LB/H OIL		BACT
			0.4670 LB/MMBTU OIL		
				0.42% S OIL	
		NOX	27.0000 LB/H OIL		BACT
			0.3000 LB/MMBTU OIL		
				LEA FIRING	
		CO	3.3000 LB/H OIL		BACT
			0.0370 LB/MMBTU OIL		
				COMBUSTION CONTROLS	
		VOC	0.7000 LB/H OIL		BACT
			0.0080 LB/MMBTU OIL		
		PM	1.2000 LB/H GAS		BACT
			0.0130 LB/MMBTU GAS		
				LIQUID OR GASEOUS FUEL	
		SO2	2.1000 LB/H GAS		NSPS
			0.0230 LB/MMBTU GAS		
				0.1% GR H2S/DSCF	
		NOX	10.8000 LB/H GAS		BACT
			0.1200 LB/MMBTU GAS		
				LEA FIRING	
		CO	1.4000 LB/H GAS		BACT
			0.0160 LB/MMBTU GAS		

		COMBUSTION CONTROLS	
VOC	0.2000 LB/H GAS		BACT
	0.0080 LB/MMBTU GAS		

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR PLANT	2.70 MMBTU/H GAS				
		SO2	2.2000 LB/H	SCOT TAIL GAS TREAT.	BACT 95.00
		NOX	0.3000 LB/H 0.1200 LB/MMBTU	NONE	BACT
FLARE					
		PM		TRACE SMOKELESS OPERATION	BACT
		SO2		NEGLIGIBLE NONE	BACT
		NOX		TRACE SMOKELESS/STEAM INJECTION	BACT
		CO		TRACE SMOKELESS OPERATION	BACT
BOILER	170.00 MMBTU/H OIL				
		PM	8.9000 LB/H OIL 0.0520 LB/MMBTU OIL	LIQUID OR GASEOUS FUEL	BACT
		SO2	79.3000 LB/H OIL 0.4670 LB/MMBTU OIL	0.42% S FUEL	BACT
		NOX	51.0000 LB/H OIL 0.3000 LB/MMBTU OIL	LEA FIRING	BACT
		CO	6.2000 LB/H OIL 0.0360 LB/MMBTU OIL	COMBUSTION CONTROLS	BACT
		VOC	1.2000 LB/H OIL 0.0070 LB/MMBTU OIL		BACT
		PM	2.3000 LB/H GAS 0.0140 LB/MMBTU GAS	LIQUID OR GASEOUS FUEL	BACT
		SO2	4.2000 LB/H GAS 0.0250 LB/MMBTU GAS	0.1% GR H2S/DSCF	BACT
		NOX	20.4000 LB/H GAS 0.1200 LB/MMBTU GAS		BACT

		COMBUSTION CONTROLS	
CO	2.6000	LB/H GAS	BACT
	0.0150	LB/MMBTU GAS	
		COMBUSTION CONTROL	
VOC	0.5000	LB/H GAS	BACT
	0.0070	LB/MMBTU GAS	

(CONTINUED) NEDERLAND PROCESSING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VALVES -- GAS VAPOR, 396		VOC	2.1000 LB/H		BACT
VALVES -- LIGHT LIQUID, 268		VOC	0.9000 LB/H		BACT
VALVES -- HEAVY LIQUID, 357		VOC	0.2000 LB/H		BACT
FLANGES, 3650		VOC	2.1000 LB/H		BACT
OIL/WATER SEP		VOC	3.6000 LB/H		BACT
PUMPS -- LIGHT LIQUID, 58		VOC	2.0000 LB/H		BACT
PUMPS -- HEAVY LIQUID, 7		VOC	0.3000 LB/H		BACT
COOLING TOWER		VOC	3.6000 LB/H		BACT
STORAGE TANKS, 6	55.00 MBBL EA	VOC	7.8000 LB/H TOTAL	EXTERNAL FLOATING ROOFS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION PETRACO VALLEY OIL & REFINING CO.
1201 DAIRY ASHFORD, SUITE 150 HOUSTON, TX
CAMERON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. TX-236
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/15/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE CHARGE	427.00 MMBTU/H				
		PM	3.2000 LB/H 0.0070 LB/MMBTU	GAS FIRED, F.G. O2 CONTROL	BACT
		SO2	6.8000 LB/H 0.0100 LB/MMBTU	LOW S GAS (0.1 GR H2S/DSCF)	NSPS
		NOX	51.3000 LB/H 0.1200 LB/MMBTU	LEA FIRING, F.G. O2 CONTRL	BACT
		VOC	0.8000 LB/H 0.0020 LB/MMBTU	F.G. O2 CONTROL	BACT
		CO	4.6000 LB/H 0.0100 LB/MMBTU	F.G. O2 CONTROL	BACT
HEATER, VACUUM CHARGE	219.00 MMBTU/H				
		PM	1.7000 LB/H 0.0070 LB/MMBTU	GAS FIRED, F.G. O2 CONTRL.	BACT
		SO2	3.5000 LB/H 0.0200 LB/MMBTU		NSPS

		LOW S GAS (0.1 GR H2S/DSCF)	
NOX	26.2000	LB/H	BACT
	0.1200	LB/MMBTU	
		LEA FIRING, F.G. O2 CONTRL	
VOC	0.4000	LB/H	BACT
	0.0020	LB/MMBTU	
		F.G. O2 CONTROL	
CO	2.3000	LB/H	BACT
	0.0100	LB/MMBTU	
		F.G. O2 CONTROL	

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COKER HEATER	401.00 MMBTU/H				
		PM	3.0000 LB/H		BACT
			0.0070 LB/MMBTU		
				GAS FIRED, F.G. O2 CONTRL	
		SO2	6.7000 LB/H		BACT
			0.0200 LB/MMBTU		
				LOW S GAS, (0.1 GR H2S/DSCF)	
		NOX	48.1000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING, F.G O2 CONTRL	
		VOC	0.9000 LB/H		BACT
			0.0020 LB/MMBTU		
				F.G. O2 CONTROL	
		CO	4.7000 LB/H		BACT
			0.0100 LB/MMBTU		
				F.G. O2 CONTROL	
FCCU REGENERATOR	24.90 MBBL/D				
		PM	16.7000 LB/H		NSPS
			1.0000 LB/MLB COKE		
				ESP	75.00
		SO2	116.9000 LB/H		BACT
				S REDUCTION CATALYST	85.00
		NOX	39.3000 LB/H		BACT
				LEA FIRING, F.G. O2 CONTROL	
		VOC	12.7000 LB/H		BACT
				F.G. O2 CONTROL	
		CO	61.2000 LB/H		NSPS
			0.0500 % BY VOL.		
				F.G. O2 CONTROL	
HEATER, HYDROHEATER FEED	147.00 MMBTU/H				
		PM	1.1000 LB/H		BACT
			0.0070 LB/MMBTU		
				GAS FIRED, F.G. O2 CONTRL	
		SO2	2.6000 LB/H		NSPS
			0.0200 LB/MMBTU		
				LOW S GAS (0.1 GR H2S/DSCF)	
		NOX	17.6000 LB/H		BACT
			0.1200 LB/MMBTU		

		LEA FIRING, F.G. O2 CONTROL	
VOC	0.3000	LB/H	BACT
	0.0020	LB/MMBTU	
		F.. O2 CONTROL	
CO	1.7000	LB/H	BACT
	0.0100	LB/MMBTU	
		F.. O2 CONTROL	

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HYDROCRACKER	352.00 MMBTU/H				
		PM	2.7000 LB/H		
			0.0070 LB/MMBTU		BACT
				GAS FIRED, F.G. O2 CONTRL	
		SO2	6.1000 LB/H		
			0.0200 LB/MMBTU		NSPS
				LOW S GAS, 0.1 GR H2S/DSCF	
		NOX	42.3000 LB/H		
			0.1200 LB/MMBTU		BACT
				LEA FIRING, F.G. O2 CONTRL	
		VOC	0.8000 LB/H		
			0.0020 LB/MMBTU		BACT
				F.G. O2 CONTROL	
		CO	4.1000 LB/H		
			0.0100 LB/MMBTU		BACT
				F.G. O2 CONTROL	
REGENERATOR, PLATFORMER CAT.					
		PM		TRACE	
				NONE	BACT
		SO2	0.1000 LB/H		
				NONE	BACT
		NOX		TRACE	
				NONE	BACT
		VOC		TRACE	
				NONE	BACT
		CO		TRACE	
				NONE	BACT
HEATER, PLATFORM FEED	932.00 MMBTU/H				
		PM	53.2000 LB/H		
			0.0070 LB/MMBTU		BACT
				OIL FIRED, F.G. O2 CONTRL	
		SO2	570.9000 LB/H		
			0.0200 LB/MMBTU		BACT
				LOW S GAS, 0.7% S/LB	
		NOX	321.9000 LB/H		
			0.1200 LB/MMBTU		BACT
				LEA FIRING, F.G. O2 CONTRL	
		VOC	5.3000 LB/H		BACT

	0.0020	LB/MMBTU	
		F.G. 02 CONTROL	
CO	26.8000	LB/H	BACT
	0.0100	LB/MMBTU	
		F.G. 02 CONTROLS	

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PENEX ISOMER FEED	15.00 MMBTU/H				
		PM	0.1000 LB/H		BACT
			0.0070 LB/MMBTU		
				GAS FIRED, F.G. O2 CONTROL	
		SO2	0.3000 LB/H		NSPS
			0.0200 LB/MMBTU		
				LOW S GAS, 0.1 GR H2S/DSCF	
		NOX	1.7000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING, F.G. O2 CONTRL	
		VOC		TRACE	BACT
				F.G. O2 CONTROL	
		CO	0.2000 LB/H		BACT
			0.0100 LB/MMBTU		
				F.G. O2 CONTROL	
INCIN., SULFUR PLANT	48.00 MMBTU/H				
		PM	0.4000 LB/H		BACT
			0.0080 LB/MMBTU		
				NONE	
		SO2	26.0000 LB/H		NSPS
			0.0200 % BY VOL.		
				SULFUR PLANT, SULFUR RECOVERY	99.90
		NOX	67.4000 LB/H		BACT
			1.4000 LB/MMBTU		
				LEA FIRING, F.G. O2 CONTRL	
		VOC	0.1000 LB/H		BACT
			0.0020 LB/MMBTU		
				F.G. O2 CONTROL	
		CO	0.4000 LB/H		BACT
			0.0080 LB/MMBTU		
				F.G. O2 CONTROL	
HEATER, HF ALK ISOSTRIPPER REBO*	233.00 MMBTU/H				
		PM	1.7000 LB/H		BACT
			0.0070 LB/MMBTU		
				GAS FIRED, F.G. O2 CONTRL	
		SO2	4.0000 LB/H		NSPS
			0.0200 LB/MMBTU		
				LOW S GAS, 0.1 GR H2S/DSCF	

NOX	28.0000	LB/H	BACT
	0.1200	LB/MMBTU	
		LEA FIRING, F.G. O2 CONTRL	
VOC	0.5000	LB/H	BACT
	0.0020	LB/MMBTU	
		F.G. O2 CONTROLS	
CO	2.7000	LB/H	BACT
	0.0100	LB/MMBTU	
		F.G. O2 CONTROL	

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, BUTAMER ISOMER	12.00 MMBTU/H				
		PM	0.1000 LB/H 0.0070 LB/MMBTU	GAS FIRED, F.G. O2 CONTROL	BACT
		SO2	0.2000 LB/H 0.0200 LB/MMBTU	LOW S GAS, 0.1 GR H2S/DSCF	BACT
		NOX	1.4000 LB/H 0.1200 LB/MMBTU	LEA FIRING, F.G. O2 CONTRL	BACT
		VOC	TRACE	F.G. O2 CONTROL	BACT
		CO	0.1000 LB/H 0.0100 LB/MMBTU	F.G. O2 CONTROL	BACT
FLARE					
		SO2	112.1000 LB/H	NONE	
		NOX	78.8000 LB/H	STEAM INJECTION	BACT
		VOC	3.3000 LB/H	STEAM INJECTION	BACT
		CO	17.8000 LB/H	STEAM INJECTION	BACT
		PM	0.0000 LB/H	STEAM INJECTION	BACT
BOILER	255.00 MMBTU/H				
		PM	1.9000 LB/H 0.0070 LB/MMBTU	GAS FIRED, F.G.O2 CONTRL	BACT
		SO2	3.4000 LB/H 0.0100 LB/MMBTU	LOW S GAS, 0.1 GR H2S/DSCF	NSPS
		NOX	31.7000 LB/H 0.1200 LB/MMBTU	LEA FIRING, F.G. O2 CONTROL	BACT
		VOC	0.4000 LB/H 0.0020 LB/MMBTU		BACT

		F.G. O2 CONTROL	
CO	2.3000	LB/H	BACT
	0.0100	LB/MMBTU	
		F.G. O2 CONTROL	

(CONTINUED) PETRACO VALLEY OIL & REFINING CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, OIL	163.00 MMBTU/H				
		PM	1.2000 LB/H		BACT
			0.0070 LB/MMBTU		
				GAS FIRED, F.G. O2 CONTRL	
		SO2	2.8000 LB/H		NSPS
			0.0100 LB/MMBTU		
				LOW S GAS, 0.1 GR H2S/DSCF	
		NOX	19.6000 LB/H		BACT
			0.1200 LB/MMBTU		
				LEA FIRING, F.G. O2 CONTROL	
		VOC	0.4000 LB/H		BACT
			0.0020 LB/MMBTU		
				F.G. O2 CONTROL	
		CO	1.9000 LB/H		BACT
			0.0100 LB/MMBTU		
				F.G. O2 CONTROL	
HEATER, SCOT UNIT FEED	5.00 MMBTU/H				
		PM		TRACE	BACT
				NONE	
		SO2	0.1000 LB/H		BACT
			0.0100 LB/MMBTU		
				NONE	
		NOX	0.6000 LB/H		BACT
			0.1200 LB/MMBTU		
				NONE	
		VOC		TRACE	BACT
				NONE	
		CO	0.1000 LB/H		BACT
			0.0100 LB/MMBTU		
				NONE	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 130000.00 BPSD

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.
BORGER REF NGL CONTR.
BORGER, TX
HUTCHINSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-102M-1
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/15/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE, 2	650.00 HP EA			
		SO2	0.0320 LB/MMBTU GAS	
			0.8000 LB/MMBTU OIL	
			0.7% S IN OIL	
		NOX	0.1360 LB/MMBTU GAS	
			0.4000 LB/MMBTU OIL	
			O2 MONITORING	
		VOC	0.0036 LB/MMBTU GAS	
			0.0070 LB/MMBTU OIL	
			O2 MONITORING	
		CO	0.0170 LB/MMBTU GAS	
			0.0340 LB/MMBTU OIL	
			O2 MONITORING	
		PM	0.0100 LB/MMBTU GAS	
			0.0700 LB/MMBTU OIL	
TURBINE, 2	3000.00 HP EA			
		SO2	0.0320 LB/MMBTU GAS	
			0.8000 LB/MMBTU OIL	
			0.7% S IN OIL	
		NOX	0.1360 LB/MMBTU GAS	
			0.4000 LB/MMBTU OIL	
			O2 MONITORING	

VOC	0.0036	LB/MMBTU GAS
	0.0070	LB/MMBTU OIL
		O2 MONITORING
CO	0.0170	LB/MMBTU GAS
	0.0340	LB/MMBTU OIL
		O2 MONITORING
PM	0.0100	LB/MMBTU GAS
	0.0700	LB/MMBTU OIL

(CONTINUED) PHILLIPS PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 4	32.00 MMBTU/H				
		SO2	0.0320	LB/MMBTU GAS AS FUEL	
		NOX	0.1360	LB/MMBTU O2 MONITORING	
		VOC	0.0036	LB/MMBTU O2 MONITORING	
		CO	0.0170	LB/MMBTU O2 MONITORING	
		PM	0.0100	LB/MMBTU GAS AS FUEL	
CRUDE OIL TANKS, 3	200.00 MBBL				
		VOC	1.8300	T/YR EA EPA EQUIV. STAND & MAINT. PROG	
FUGITIVE EMISSIONS					
		VOC	140.0000	T/YR EPA EQUIV. STAND & MAINT. PROG	
CO BOILERS, 2	370.00 MMBTU/H				
		SO2	0.1000	LB/MMBTU	
		NOX	1.9000	LB/MMBTU O2 MONITORING	
		VOC	0.0014	LB/MMBTU O2 MONITORING	
		CO	0.0170	LB/MMBTU O2 MONITORING	
		PM	0.3100	LB/MMBTU GAS AS FUEL	
I.C. COMPRESSOR	720.00 HP				
		SO2	0.1000	G/HP-H GAS AS FUEL	
		NOX	10.9000	G/HP-H	
		VOC	4.4200	G/HP-H	
		CO	1.3900	G/HP-H	
		PM	0.0200	G/HP-H GAS AS FUEL	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1993

NATURAL GAS FIRED

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 10000.00 BBL/D

COMPANY NAME/SITE LOCATION PROCESS REFIN. CO. BAKERSFIELD, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. SJ-78-27
DETERMINATION MADE BY EPA REGION IX (AGENCY) MATT HABER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/19/79
ESTIMATED DATE OF START-UP--
(415)-974-8058 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM HEATER	25.00 MMBTU/H	NOX	0.2700 LB/MMBTU	LOW NOX BURNERS	35.00
CRUDE HEATER	20.00 MMBTU/H	NOX	0.2700 LB/MMBTU	LOW NOX BURNERS	35.00
BOILER, 2 EA	4.31 MMBTU/H	NOX	0.2700 LB/MMBTU	LOW NOX BURNERS	35.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 50.00 MBPSD

COMPANY NAME/SITE LOCATION PROVIDENT ENERGY CO. MOBILE, AZ

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) AZP79-02
DETERMINATION MADE BY EPA REGION IX (AGENCY) JIM HANSON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/03/80
ESTIMATED DATE OF START-UP--
(415)-974-8038 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER & HEATER		NOX	0.4300 LB/MMBTU 2H AV	LOW NOX BURNERS	
		SO2		FUEL LIM:H2S-.1GR/DSCF,S-.4%WT	
CLAUS SULFUR RECOVERY UNIT		H2S		SCOT TAIL GAS UNIT	
FCC UNIT & CATALYIST REGEN.		PM	1.0000 LB/MLB COKE BURNED	3 STAGE CATALYST SEP. & ESP	
		CO		CO BOILER	
		SO2		FUEL LIM:H2S-.1GR/DSCF,S-.1%WT	

NOTES ----------
BACT RESOLUTION: REFINERY FUEL OIL WILL BE FILTERED TO REDUCE PM. 1) FACULITY: 50000 BBL/STREAM DAY 2) LIMITS DETERMINED BY TE CHNOLOGY AND NSPS CONSIDERATIONS. CONTROL OF HC EMISSIONS FROM FACITLTY INCLUDE INSPECTION/MAINTENANCE PROGRESS, COVERED OIL/WATER SEPERATOR, VAPOR RECOVERY ON LIGHT GASOLINE TANKS, AND DOUBLE SEALED FLOATING ROOF TANKS ON OTHER GASOLINE T ANKS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 100.00 MBPSD

COMPANY NAME/SITE LOCATION SABER REFIN.
6560 UPRIVER ROAD
CORPUS CHRISTI, TX
NEUCES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-324
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 5	365.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	REF. FIELD GAS	BACT
		SO2	0.0140 LB/MMBTU	FIRE REFINERY FLUE GAS	NSPS
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0160 LB/MMBTU	EFFICIENT COMBUSTION	BACT
FURNACES, 5	178.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU	REF. FUEL GAS	NSPS
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0160 LB/MMBTU	EFFICIENT COMBUSTION	BACT
REBOILERS, 2	158.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU		NSPS

		REF. FUEL GAS	
NOX	0.1200	LB/MMBTU	BACT
		LOW NOX BURNERS	
CO	0.0160	LB/MMBTU	BACT
		EFFICIENT COMBUSTION	

(CONTINUED) SABER REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REFORMERS, 2	356.00 MMBTU/H				
		PM	0.0100 LB/MMBTU	REF. FUEL GAS	BACT
		SO2	0.0140 LB/MMBTU	FIRE REF. FUEL GAS	NSPS
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
		CO	0.0160 LB/MMBTU	EFFICIENT COMBUSTION	BACT
HEAVY OIL CRACKING UNIT	46500.00 BPSD				
		PM	5.6000 LB/H	3-STAGE CYCLONE	BACT
		SO2	178.0000 PPM	FLUE GAS DESULFURIZATION	NSPS 90.20
		NOX	203.0000 LB/H	NO CONTROLS AVAILABLE	BACT
		CO	178.0000 PPM	WASTE HEAT BOILER	NSPS

NOTES ----------
H2S CONTENT OF FLUE GAS WILL BE LIMITED TO 0.054 GRAINS/DSCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 67.00 MBPSD

COMPANY NAME/SITE LOCATION SIGMORE REFIN. CO.
P.O. BOX 20267
SAN ANTONIO, TX 78220
LIVE OAK COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-331
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/10/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, #1 CRUDE	59.50 MMBTU/H				
		PM	2.7500 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	22.1800 LB/H	0.7% S FUEL OIL	BACT
		NOX	9.3400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	2.1300 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, LUBE CRUDE	10.80 MMBTU/H				
		PM	0.0600 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.2300 LB/H	0.7% S FUEL OIL	BACT
		NOX	2.4800 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.1800 LB/H	EFFICIENT COMBUSTION	BACT
FCCU REGENERATOR	40.00 MBPSD				
		PM	12.0000 LB/H	ESP	NSPS 90.00
		SO2	205.4200 LB/H		BACT

		HIGH TEMP REGEN.	
NOX	37.0100	LB/H	BACT
		HIGH TEMP REGEN.	
CO	90.1200	LB/H	BACT
		HIGH TEMP REGEN.	

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
REBOILER, ISOSTRIPPER	48.80 MMBTU/H				
		PM	3.3100 LB/H	EFFICIENT COOMBUSTION	BACT
		SO2	38.6000 LB/H	0.7% S FUEL OIL	BACT
		NOX	32.8700 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.6500 LB/H	EFFICIENT COMBUSTION	BACT
BOILER	167.80 MMBTU/H				
		PM	11.3600 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	132.7200 LB/H	0.7% S FUEL OIL	BACT
		NOX	113.0400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	9.6800 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, VISBREAKER CHARGE	40.00 MMBTU/H				
		PM	2.7100 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	31.6400 LB/H	0.7% S FUEL OIL	BACT
		NOX	26.9500 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.3500 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, VACUUM DISTALLATION	96.50 MMBTU/H				
		PM	1.6000 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	19.4900 LB/H	.7% S FUEL,SCRUB TO .1 GR/DSCF	BACT
		NOX	20.8000 LB/H	EFFICIENT COMBUSTION	BACT
		CO	2.5000 LB/H	EFFICIENT COMBUSTION	BACT

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, #2 CRUDE UNIT	18.10 MMBTU/H				
		PM	0.2700 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.0100 LB/H	0.7% S FUEL OIL	BACT
		NOX	4.1600 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.3100 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, VISBREAKER CHARGE	40.00 MMBTU/H				
		PM	2.7100 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	31.6400 LB/H	0.7% S FUEL OIL	BACT
		NOX	26.9500 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.3500 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, CRUDE CHARGE	130.40 MMBTU/H				
		PM	8.8300 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	103.1400 LB/H	0.7% S FUEL OIL	BACT
		NOX	87.8400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	4.4200 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, NAPHTHA STABILIZER	19.50 MMBTU/H				
		PM	1.3200 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	15.4200 LB/H	0.7% S FUEL OIL	BACT
		NOX	13.1400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.6600 LB/H	EFFICIENT COMBUSTION	BACT

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, NAPHTHA HDS CHARGE	36.40 MMBTU/H				
		PM	0.1900 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	1.0000 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	4.4600 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.6300 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, NAPHTHA SPLITTER	27.30 MMBTU/H				
		PM	0.1400 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.7500 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	3.3400 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.4700 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, 1ST REFORMER	59.50 MMBTU/H				
		PM	0.3100 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	1.6300 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	7.2900 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.0300 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, 2ND REFORMER	52.80 MMBTU/H				
		PM	0.2700 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	1.4500 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	6.4700 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.9200 LB/H	EFFICIENT COMBUSTION	BACT

(CONTINUED) SIGMORE REFIN. CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, 3RD REFORMER	26.40 MMBTU/H				
		PM	0.1400 LB/H	EFFICIENT OPERATION	BACT
		SO2	0.7200 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	3.2300 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.4600 LB/H	EFFICIENT COMBUSTION	BACT
HEATER, 4TH REFORMER	13.20 MMBTU/H				
		PM	0.0700 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.3600 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	1.6200 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.2300 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, REFORMER STABILIZER	16.40 MMBTU/H				
		PM	0.0800 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.4500 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	2.0100 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.2800 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, KEROSENE HDS STRIPPER	13.60 MMBTU/H				
		PM	0.0700 LB/H	EFFICIENT OPERATION	BACT
		SO2	0.3700 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	1.6700 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.2400 LB/H	EFFICIENT COMBUSTION	BACT

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, GAS OIL HDS CHARGE	97.80 MMBTU/H				
		PM	0.5000 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	2.6800 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	11.9800 LB/H	EFFICIENT COMBUSTION	BACT
		CO	1.7000 LB/H	EFFICIENT COMBUSTION	BACT
REBOILER, DEETHANIZER	25.20 MMBTU/H				
		PM	0.1300 LB/H	EFFICIENT COMBUSTION	BACT
		SO2	0.6900 LB/H	FUEL GAS SCRUB. TO 0.1 GR/DSCF	BACT
		NOX	3.0900 LB/H	EFFICIENT COMBUSTION	BACT
		CO	0.4400 LB/H	EFFICIENT COMBUSTION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 31500.00 BPSD

COMPANY NAME/SITE LOCATION SOUTHERN UNION REFIN. LOVINGTON, NM
5 MI SE LOVINGTON LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NM-350
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/05/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, 13 EA	85.00 MMBTU/H				
		PM	0.0050 LB/MMBTU GAS	FUEL GAS OR LOW SULFUR OIL	BACT
		SO2	0.0270 LB/MMBTU	FUEL OIL OR NATURAL GAS	BACT
		NOX	0.1200 LB/MMBTU	LOW NOX BURNERS	BACT
SULFUR RECOVERY UNIT					
		SO2	0.8400 LB/H	CLAUS UNIT	BACT

NOTES ----------
13 HEATERS AND 1 SULFUR RECOVERY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION STANDARD OIL LIMA, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 03-1138
DETERMINATION MADE BY OHIO EPA NWD (AGENCY) CHUCK HULL (AGENCY CONTACT PERSON) (419)-352-8461 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/08/82
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER A	78.00 MMBTU/H				
		PM	0.0140 LB/MMBTU	2-STAGE COMBUST.& LOW NOX BURN	30.00
		SO2	0.0230 LB/MMBTU		
		NOX	0.1470 LB/MMBTU		
		CO	0.0150 LB/MMBTU		
HEATER B	164.00 MMBTU/H				
		PM	0.0140 LB/MMBTU	2-STAGE COMBUST.& LOW NOX BURN	30.00
		SO2	0.0230 LB/MMBTU		
		NOX	0.1470 LB/MMBTU		
		CO	0.0150 LB/MMBTU		
HEATER C	44.00 MMBTU/H				
		PM	0.0140 LB/MMBTU	2-STAGE COMBUST.& LOW NOX BURN	30.00
		SO2	0.0230 LB/MMBTU		
		NOX	0.1470 LB/MMBTU		
		CO	0.0150 LB/MMBTU		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 63.00 MMBTU/H

COMPANY NAME/SITE LOCATION SUNOCO MARCUS HOOK, PA
DELAWARE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 78PA10
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON) (215)-597-2711 (PHONE)

DATE OF PERMIT ISSUANCE-- 03/20/79
ESTIMATED DATE OF START-UP-- 1980

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER/BOILER	63.00 MMBTU/H				
		SO2	56.0000 LB/H	1% SULFUR FUEL OIL	BACT
		NOX	23.0000 LB/H		BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TENNECO CHALMETTE, LA
ST. BERNARD PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-LA-199
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/23/81
ESTIMATED DATE OF START-UP-- 1984
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 26	287.00 MMBTU/H	CO	0.0210 LB/MMBTU GAS 0.0300 LB/MMBTU OIL O2 MONITORING	BACT
BOILERS, 13	160.00 MMBTU/H	CO	0.0210 LB/MMBTU GAS 0.0300 LB/MMBTU OIL O2 MONITORING	BACT
CO BOILER	350.00 MMBTU/H	CO	0.0210 LB/MMBTU GAS 0.0300 LB/MMBTU OIL O2 MONITORING	BACT
FLARES, 2		CO	1.6000 LB/H EA NONE	BACT
SULFUR PLANT	6.60 MMBTU/H	CO	0.0380 LB/MMBTU NONE	BACT

(CONTINUED) TENNECO

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU REGEN	42000.00 BPSD				
		CO	212.8000 LB/H	COMPLIANCE W/NSPS	NSPS

NOTES ----------
26 HEATERS RANGING IN SIZE FROM 11 TO 287 MMBTU/HR. 13 BOILERS RANGING IN SIZE FROM 24 TO 160 MMBTU/HR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 100000.00 BPSD

COMPANY NAME/SITE LOCATION TEXACO, INC. CONVENT, LA ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-420
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/16/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 15 EA	198.00 MMBTU/H	CO	0.0300 LB/MMBTU	FLUE GAS O2 MONITOR LOW EXCESS AIR	BACT
ACID GAS INCIN.	8.00 MMBTU/H	CO	0.9300 LB/MMBTU	LOW EXCESS AIR, FLUE GAS O2 MONITOR	BACT
ERG INCINERATOR	13.10 MMBTU/H	CO	0.0200 LB/MMBTU	LOW EXCESS AIR, FLUE GAS O2 MONITOR	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 140000.00 BPSD

COMPANY NAME/SITE LOCATION TEXACO, INC. CONVENT, LA
ST. JAMES PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-378
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/23/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MTU-CRU FLUE GAS COOLER	670.00 MMBTU/H				
		CO	0.0200 LB/MMBTU	HIGH TEMP REGENERATION (HTR)	BACT
INCIN., 3 EA	13.10 MMBTU/H				
		CO	0.0200 LB/MMBTU	HIGH TEMP REGENERATION (HTR)	BACT
POWER RECOVERY STACK					
		CO		LIMIT EMISSIONS TO 500 PPM	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TEXACO, INC.
P.O. BOX 712
PORT ARTHUR, TX 77640
JEFFERSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-141
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/20/79
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCCU	170.00 MBBL/D				
		SO2	406.3000 LB/H		NSPS
				SOX REDUCTION CATALYST	75.00
HEATER #1407	30.74 SCFM				
		SO2	4.5000 LB/H		NSPS
				0.1 GR/DSCF, AMINE SCRUB.	
FLUE GAS SCRUB./SULFUR RECOVERY					
		SO2	1.1000 LB/H SEE NOTE		NSPS
				TAIL GAS TREATING UNIT	99.97

NOTES ----------
NOTE: F.G. SCRUB./S RECOVERY EMISSIONS ARE INCREASE ONLY OVER EXISTING CONDITIONS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TOSCO CORP. BAKERSFIELD, CA

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-78-26
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/18/80
ESTIMATED DATE OF START-UP--
(415)-974-8066 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CO BOILER	92700.00 LB/H				
		CO	45.7000 LB/H	BOILER BURNS CO EMITTED FROM TCC UNIT	LAER 99.40
		SO2	0.5000 % S FUEL	SULFUR IN AUXILLARY FUEL OIL	LAER
		NOX	41.0000 LB/H	COMBUSTION MODIFICATION BASED ON 0.3 LB/MMBTU	BACT

NOTES ----------
THERMOFOR CATALYTIC CRACKING. INSTALLATION OF CO BOILER ON REFINERY TCC' UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION TOSCO CORP. MARTINEZ, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27769
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) JIM KARAS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/19/82
ESTIMATED DATE OF START-UP-- 1983
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FURNACE, REFINERY PROCESS, 2 TO*	119.00 MMBTU/H SEE*			
		NOX	40.0000 PPM AT 3% O2	BACT
			LOW NOX BURNERS/1 SCR UNIT FOR BOTH FURNACES	70.00
FURNACE, REFINERY PROCESS	40.00 MMBTU/H			
		NOX	40.0000 PPM AT 3% O2	BACT
			LOW NOX BURNERS / SCR	70.00

NOTES ----------
BURNING REFINERY FUEL GAS WITH HEAT VALUE OF 1025 BTU/CF. NOTE -- THROUGH PUT CAPACITY IS TOTAL CAPACITY. ONE IS 67. MMBTU/H, THE OTHER IS 52. MMBTU/H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 10000.00 BBL/D

COMPANY NAME/SITE LOCATION UNI OIL INGLESIDE, TX
SAN PATRICIO COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-229
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/12/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, VACUUM	66.65 MMBTU/H				
		SO2	1.2700 LB/H 0.0190 LB/MMBTU	FUEL GAS: 0.1 GR/DSCF H2S	NSPS
		PM	1.5100 LB/H 0.0230 LB/MMBTU	COMBUSTION CONTROL	BACT
		NOX	11.6000 LB/H 0.1740 LB/MMBTU	COMBUS. CONTROL/LOW NOX BURN.	BACT
		CO	1.6700 LB/H 0.0250 LB/MMBTU	COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0024 LB/MMBTU	COMBUSTION CONTROL	BACT
FCC UNIT	17000.00 BBL/D				
		SO2	64.1000 LB/H	F. G. :0.1 GR/DSCF H2S	NSPS
		PM	12.0000 LB/H 1.0000 LB/MLB COKE BURN OFF	ESP	NSPS

NOX	29.4000	LB/H CMBST. CONTRL. & LOW NOX BURN.	BACT
CO	89.1000	LB/H HIGH TEMP. REGENERATION	NSPS
VOC	2.6000	LB/H COMBUSTION CONTROL	BACT

(CONTINUED) UNI OIL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, ISOSTRIPPER	38.24 MMBTU/H				
		SO2	0.6300 LB/H 0.0790 LB/MMBTU	F.G. : 0.01 GR/DSCF H2S	NSPS
		PM	0.8700 LB/H 0.0230 LB/MMBTU	COMBUSTION CONTROL	BACT
		NOX	6.8500 LB/H 0.1790 LB/MMBTU	CMBST. CONTRL./LOW NOX BURN.	BACT
		CO	1.1100 LB/H 0.0290 LB/MMBTU	COMBUSTION CONTROL	BACT
		VOC	0.1600 LB/H 0.0042 LB/MMBTU	COMBUSTION CONTROL	BACT
TAIL GAS INCIN					
		SO2	39.7000 LB/H	NO CONTROL	BACT
		NOX	0.0790 LB/H	NO CONTROL	BACT
REGENERATOR, HYDROTREATER CATAL*					
		SO2	0.2400 LB/H	F.G. : 0.1 GR/DSCF H2S	NSPS
		PM	0.7900 LB/H	COMBUSTION CONTROL	BACT
HEATER, REFORMER	161.00 MMBTU/H				
		SO2	1.9000 LB/H 0.0120 LB/MMBTU	F.G. : 0.1 GR/DSCF	NSPS
		PM	0.0790 LB/H 0.0005 LB/MMBTU	COMBUSTION CONTROL	BACT
		NOX	43.8000 LB/H 0.2700 LB/MMBTU	CMBST. CONTRL./LOW NOX BURN.	BACT
		CO	6.7500 LB/H 0.0420 LB/MMBTU		BACT

		COMBUSTION CONTROL	
VOC	0.8000	LB/H	BACT
	0.0050	LB/MMBTU	
		COMBUSTION CONTROL	

(CONTINUED) UNI OIL

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... FCT EFF
HEATER, HDS	40.00 MMBTU/H				
		SO2	0.4800 LB/H		NSPS
			0.0120 LB/MMBTU		
				F.G. : 0.1 GR/DSCF H2S	
		PM	1.4300 LB/H		BACT
			0.0360 LB/MMBTU		
				COMBUSTION CONTROL	
		NOX	10.9000 LB/H		BACT
			0.2700 LB/MMBTU		
				CMBST. CONTRL./LOW NOX BURN.	
		CO	1.6700 LB/H		BACT
			0.0420 LB/MMBTU		
				COMBUSTION CONTROL	
		VOC	0.1600 LB/H		BACT
			0.0040 LB/MMBTU		
				COMBUSTION CONTROL	
BOILER, PACKAGE	103.24 MMBTU/H				
		SO2	0.7900 LB/H		NSPS
			0.0077 LB/MMBTU		
				F.G. : 0.1 GR/DSCF	
		PM	1.5900 LB/H		BACT
			0.0150 LB/MMBTU		
				COMBUSTION CONTROL	
		NOX	7.9400 LB/H		BACT
			0.0760 LB/MMBTU		
				COMBUSTION CONTROL	
		CO	0.7100 LB/H		BACT
			0.0069 LB/MMBTU		
				COMBUSTION CONTROL	
		VOC	0.0600 LB/H		BACT
			0.0006 LB/MMBTU		
				COMBUSTION CONTROL	

NOTES ----------
THE NEW FACILITY WILL NOT INCREACE THE REFINERIES CRUDE HANDLING CAPACITY, BUT WILL ENABLE THE REFINERY TO MAKE PREMIUM UNLEAD
ED GASOLINE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY

COMPANY NAME/SITE LOCATION UNION OIL ROMEOVILLE, IL

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 83 01 0013
DETERMINATION MADE BY ILLINOIS EPA (AGENCY) CHRIS ROMAINE (AGENCY CONTACT PERSON) (217)-782-2113 (PHONE)
DATE OF PERMIT ISSUANCE-- 06/09/83
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, W/AIR PREHEAT, 2 TOTAL	184.00 MMBTU/H	NOX	0.1600 LB/MMBTU	EQUIPMENT DESIGN, EXCESS AIR ANALIZERS	BACT
HEATER, W/O AIR PERHEAT, 3 EA	25.00 MMBTU/H MAX	NOX	0.1300 LB/MMBTU	EQUIPMENT DESIGN, EXCESS AIR ANALIZERS	BACT

NOTES ----------
PROJECT WAS NOT A MAJOR MODIFICATION FOR SO2. SO2 EMISSIONS GOVERENED BY NSPS. ALSO PERMIT NUMBER 197 090 AAI.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - AUXILIARY 46500.00 BPSD

COMPANY NAME/SITE LOCATION VENTECH REFIN. KROTZ SPRINGS, LA ST. LANDRY PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-232
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/13/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CATALYTIC REGEN		PM	14.6000 LB/H	3 STAGE CYCLONE	BACT 94.00
		SO2	265.2000 LB/H	LOW H2S FUEL (OIL LB/DCSF)	NSPS
		NOX	66.6000 LB/H	LOW EXCESS AIR	BACT
		VOC	2.2000 LB/H	LOW EXCESS AIR	BACT
		CO	104.7000 LB/H	FLOT REGEN	NSPS 99.90
SULFUR RECOVERY PLANT		SO2	2.1000 LB/H	NONE	NSPS
FCCU FURNACE	50.00 MMBTU/H	PM	0.0200 LB/MMBTU	EFFICIENT OPERATION	BACT
		SO2	0.0260 LB/MMBTU	LOW H2S FUEL	NSPS
		NOX	0.2300 LB/MMBTU	LOW EXCESS AIR - COMBST CONTRL	BACT
		VOC	0.0060 LB/MMBTU		BACT

		EFFICIENT OPERATION	
CO	0.0200	LB/MMBTU LOW EXCESS AIR	NSPS

(CONTINUED) VENTECH REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VACUUM FURNACE	100.00 MMBTU/H				
		PM	0.0200 LB/MMBTU	EFFICIENT OPERATION	BACT
		SO2	0.0260 LB/MMBTU	LOW H2S FUEL	NSPS
		NOX	0.2300 LB/MMBTU	COMBUSTION CONTROLS	BACT
		VOC	0.0060 LB/MMBTU	EFFICIENT OPERATION	BACT
		CO	0.0200 LB/MMBTU	LOW EXCESS AIR	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION CHEVRON USA LUBE OIL RICHMOND, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27797
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) ELLEN LINDER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/08/82
ESTIMATED DATE OF START-UP-- 1984
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS COMPRESSOR, 9 EA	SEE NOTE	VOC	0.3000 LB/D PER SEAL SEAL/VAPOR RECOVERY	99.00

NOTES ----------
CAPACITY 20 HP TO 1000 HP. FILE A 350-011

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

ID NUMBER CA-0045A

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 21.00 MBBL/D

COMPANY NAME/SITE LOCATION GARY WESTERN REFIN.
GARY COMMUNITY RUAL STATION FRUITA, CO 81521
MESA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/24/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VAP. REC. GAS CONT.	18.00 MMSCFD				
		NOX	1.2600 LB/H	LOW NOX BURNERS	BACT
BOILER #4	47.00 MLB/H STEAM				
		NOX	8.4100 LB/H	LOW NOX BURNERS	BACT
CRUDE UNIT	21.00 MBPSD				
		NOX	5.3100 LB/H	LOW NOX BURNERS	BACT
DISTILLATE HDS	7.35 MBPSD				
		NOX	3.4200 LB/H	LOW NOX BURNERS	BACT
GILSONITE MELT	565.00 T/D				
		NOX	3.6000 LB/H	LOW NOX BURNERS	BACT
HYDROCRACKER	8.40 MBPSD				
		NOX	6.0200 LB/H	LOW NOX BURNERS	BACT

(CONTINUED) GARY WESTERN REFIN.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MARUZEN LUMMIS	3.15 MBPSD				
		NOX	1.4400 LB/H	LOW NOX BURNERS	BACT
NEW H2 PLANT	650.00 MSCFD				
		NOX	13.3200 LB/H	LOW NOX BURNERS	BACT
PLATFORMER	6.30 MBPSD				
		NOX	10.0900 LB/H	LOW NOX BURNERS	BACT
SUL RECOV PLANT	25.00 T/D				
		SO2	250.0000 PPM 60.1000 LB/H	TAIL GAS SCRUBBER	BACT 99.00
SUL RECOV PLANT	25.00 T/D				
		NOX	0.3600 LB/H	LOW NOX BURNERS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

ID NUMBER 89-0011

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 184000.00 BPSD

COMPANY NAME/SITE LOCATION HAMPTON ROADS ENERGY CO. PORTSMOUTH, VA
PORTSMOUTH CITY COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78VA01
DETERMINATION MADE BY EPA REGION III (AGENCY) EILEEN GLEN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/25/80
ESTIMATED DATE OF START-UP--
(215)-597-8187 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, RESIDUE HDS, STACK 1.	32.00 MMBTU/H				
		PM	18.0000 LB/H		BACT
		SO2	96.0000 LB/H	0.3% S FUEL	NAAQ
		NOX	60.0000 LB/H	LOW NOX BURNERS	BACT
		CO	11.0000 LB/H	GOOD OPERATION	BACT
HEATER, HYDROGEN PLANT, STACK 1.	770.00 MMBTU/H				
		PM	43.0000 LB/H		BACT
		SO2	232.0000 LB/H	0.3% S FUEL	NAAQ
		NOX	144.0000 LB/H	LOW NOX BURNERS	BACT
		CO	25.0000 LB/H	GOOD OPERATION	BACT
HEATER, SULFUR PLANT, STACK 1.	50.00 MMBTU/H				
		PM	4.0000 LB/H		BACT
		SO2	15.0000 LB/H	0.3% S FUEL	NAAQ
		NOX	15.0000 LB/H	LOW NOX BURNERS	BACT

CO	2.0000 LB/H GOOD OPERATION		BACT

(CONTINUED) HAMPTON ROADS ENERGY CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR RECOVERY UNIT					
HEATER, DISTILLATE HDS, STACK 2.	130.00 MMBTU/H	SO2	152.0000 LB/H	BEACON UNIT OR EQUIVALENT	NAAQ 99.50
		PM	7.0000 LB/H		
		SO2	39.0000 LB/H	0.3% S FUEL	BACT NAAQ
		NOX	24.0000 LB/H	LOW NOX BURNERS	BACT
		CO	4.0000 LB/H	GOOD OPERATION	BACT
HEATER, NAPHTHA HDS, STACK 2.	260.00 MMBTU/H	PM	15.0000 LB/H		
		SO2	78.0000 LB/H	0.3% S FUEL	BACT NAAQ
		NOX	49.0000 LB/H	LOW NOX BURNERS	BACT
		CO	9.0000 LB/H	GOOD OPERATION	BACT
HEATER, CATALYTIC REFORMER, STA*	520.00 MMBTU/H	PM	29.0000 LB/H		
		SO2	152.0000 LB/H	0.3% S FUEL	BACT NAAQ
		NOX	97.0000 LB/H	LOW NOX BURNERS	BACT
		CO	17.0000 LB/H	GOOD OPERATION	BACT
HEATER, ISOMERIZATION UNIT, STA*	95.00 MMBTU/H	PM	6.0000 LB/H		
		SO2	28.0000 LB/H	0.3% S FUEL	BACT NAAQ
		NOX	18.0000 LB/H	LOW NOX BURNERS	BACT
				LOW NOX BURNERS	
		CO	3.0000 LB/H	GOOD OPERATION	BACT

(CONTINUED) HAMPTON ROADS ENERGY CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, ATMOS. CRUDE DISTIL, ST*	505.00 MMBTU/H				
		PM	29.0000 LB/H		BACT
		SO2	152.0000 LB/H	0.3% S FUEL	NAAQ
		NOX	95.0000 LB/H	LOW NOX BURNERS	BACT
		CO	17.0000 LB/H	GOOD OPERATION	BACT
GEN,UTILITY STEAM,STACK 3	60.00 MMBTU/H				
		PM	34.0000 LB/H		BACT
		SO2	180.0000 LB/H	0.3% S FUEL	NAAQ
		NOX	106.0000 LB/H	LOW NOX BURNERS	BACT
		CO	20.0000 LB/H	GOOD OPERATION	BACT
FLARING					
		SO2	8.0000 LB/H		BACT

NOTES ----------
BACT -- SO2 LIMITS DETERMINED BY NAAQS & PSD CLASS II INCREMENT CONSTRAINTS. SO2 EMISSIONS FROM START-UP OF LPG PLANT TO BE OF
FSET BY REDUCTIONS FROM OTHER SOURCES.
TANKERS BURN FUEL WITH S CONTENT <1.0%.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 750.00 MBPSD

COMPANY NAME/SITE LOCATION HESS OIL - VIRGIN ISLANDS ST. CROIX, VI 00806

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NONE
DETERMINATION MADE BY EPA REGION II (AGENCY) ED NOWAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/09/82
ESTIMATED DATE OF START-UP-- 1985
(212)-264-8690 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FCC UNIT, 2	152734.00 BBL/D				
		SO2	0.6000	% BY WT	BACT
				USE OF LOW S FEED STOCK VOG	
		PM	0.8000	LB/MLB COKE BURN	BACT
				ESP	95.00
		NOX	175.0000	PPM 2% O2	BACT
				LEA & LOW COMBST TEMPS	
		CO	500.0000	PPM VOL	BACT
				CO BURNING REGENERATOR	
		VOC			
				CO BURNING REGENERATOR	
PROCESS HEATERS, 3					
		SO2	0.1000	GR/DSCF H2S,GAS	NSPS
			0.5000	% S OIL	
				LOW S GAS OR OIL	
		PM	0.1000	LB/MMBTU	NSPS
				PROPER MAINTENANCE	
		NOX	0.2000	LB/MMBTU GAS	BACT
			0.3000	LB/MMBTU OIL	
				LEA & WASTE HEAT REC.	
		CO	0.2000	LB/MMBTU GAS	BACT
			0.3000	LB/MMBTU OIL	
				LEA & WASTE HEAT REC.	

VOC	0.2000 LB/MMBTU GAS 0.3000 LB/MMBTU OIL LEA & WASTE HEAT REC.		BACT

(CONTINUED) HESS OIL - VIRGIN ISLANDS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FUGITIVE EMISSION SOURCES		VOC		GOOD ENGINEERING PRACT.	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION HILL PETROLEUM CO. KROTZ SPRINGS, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-286A
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOE WINKLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/09/80
ESTIMATED DATE OF START-UP--
(214)-767-2600 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LIQ. STORAGE TANKS (< 11.1 PSIA*		VOC		FLOATING ROOF TANK W/DBL SEALS	
LIQ. STORAGE TANKS (> 11.1 PSIA*		VOC		PRES. VESSELS W/ VAPOR BAL.	
LIQUID PETROLEUM PUMPS		VOC		DOUBLE MECHANICAL SEALS	
LIQUID PETROLEUM BARGES		VOC		SUBMERGED FILL LINES	
HEATER, REFORMER CHARGE	100.15 MMBTU/H	NOX	0.0610 LB/MMBTU GAS 0.0430 LB/MMBTU PROPANE	LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000 LB/MMBTU GAS 1.5000 LB/MMBTU PROPANE	FLUE GAS MONITORING	

(CONTINUED) HILL PETROLEUM CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, HYDROTREATER CHARGE	18.29 MMBTU/H				
		NOX	0.0610	LB/MMBTU	
				LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000	LB/MMBTU	
				FLUE GAS MONITORING	
HEATER, HYDROTREATER STABLIZER	13.58 MMBTU/H				
		NOX	0.0610	LB/MMBTU GAS	
			0.0430	LB/MMBTU PROPANE	
				LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000	LB/MMBTU GAS	
			1.5000	LB/MMBTU PROPANE	
				FLUE GAS MONITORING	
REBOILER, REFORMER STABILIZER	12.93 MMBTU/H				
		NOX	0.0610	LB/MMBTU GAS	
			0.0430	LB/MMBTU PROPANE	
				LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000	LB/MMBTU GAS	
			1.5000	LB/MMBTU PROPANE	
				FLUE GAS MONITORING	
REBOILER, STABILIZER (GASOLINE)	15.49 MMBTU/H				
		NOX	0.0610	LB/MMBTU	
				LOW NOX BURNERS W/F.G. MONITORS	
		CO	4.0000	LB/MMBTU	
				FLUE GAS MONITORING	
BOILER	78.15 MMBTU/H				
		NOX	0.1000	LB/MMBTU GAS	
			0.1100	LB/MMBTU PROPANE	
				LOW NOX BURNERS W/F.G. MONITOR	
		CO	4.0000	LB/MMBTU GAS	
			1.5000	LB/MMBTU PROPANE	
				FLUE GAS MONITORING	

NOTES ----------
THE SOURCE WILL OPERATE CONTINUOUSLY, 8640 HRS/YR. ALL CONTROL STRATIGES ARE CONSIDERED BACT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION MIAMI VALLEY REFIN. CO. AURORA, IN

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PC(15)1485
DETERMINATION MADE BY INDIANA APCD (AGENCY) FRANK PROFIT (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/07/81
ESTIMATED DATE OF START-UP--
(317)-633-0664 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FBC COAL FIRED BOILER	50000.00 BTU/H				
		PM	0.0600 LB/MMBTU	MULTICLONE & BAGHOUSE	99.00
		SO2	0.1400 LB/MMBTU		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

ID NUMBER IN-0009

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 10.00 MBPSD

COMPANY NAME/SITE LOCATION MITCHELL ENERGY
HWY 380, 2 MI W OF BRIDGE PORT BRIDGEPORT, TX
WISE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-139
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/24/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATERS, 2	21.34 MMBTU/H	VOC	0.0030 LB/MMBTU	EFFICIENT OPERATION	BACT
BOILER	12.55 MMBTU/H	VOC	0.0030 LB/MMBTU	EFFICIENT OPERATION	BACT
FLARE		VOC	0.0460 LB/MMBTU	EFFICIENT OPERATION	BACT
NALTHA STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.3700 LB/MMBTU	DOUBLE SEALS	BACT
KEROSENE STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.1600 LB/MMBTU	DOUBLE SEALS	BACT
DIESEL STORAGE TANKS, 2	10000.00 BBL EA	VOC	0.1200 LB/MMBTU	DOUBLE SEALS	BACT

(CONTINUED) MITCHELL ENERGY

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RESIDUE STORAGE TANKS	10000.00 BBL EA				
		VOC	0.0100 LB/MMBTU	DOUBLE SEALS	BACT
PROCESS DRAINS					
		VOC	0.1600 LB/MMBTU	MAINTENANCE PROG.	BACT
VALVES & FLANGES					
		VOC	11.7000 LB/MMBTU	MAINTENANCE PROG.	BACT
PUMP SEALS					
		VOC	4.1700 LB/MMBTU	MAINTENANCE PROG.	BACT
CRUDE UNLOAD					
		VOC	2.6200 LB/MMBTU	MAINTENANCE PROG.	BACT
PRODUCT UNLOAD					
		VOC	1.4800 LB/MMBTU	MAINTENANCE PROG.	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 26.30 T/D

COMPANY NAME/SITE LOCATION SOUND REFINING, INC.
2628 MARINE VIEW DRIVE TACOMA, WA 98422

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. N/C 2445
DETERMINATION MADE BY PUGET SOUND APCA (AGENCY) HARRY WATTERS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/17/83
ESTIMATED DATE OF START-UP-- 1984
(206)-344-7334 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
RECOVERY PLANT, SULFUR	26.30 T/D				
		SO2	75.0000 PPM		
			SEE NOTE #1		

NOTES ----------
UNIT 150 ALSO SUBJECT TO THE REQUIREMENTS OF 40 CFR PART 60, SUBPART J AND PSAPCA LETTER DATED 10/17/83.

NOTE #1 --- SOUR WATER STRIPPER, AMINE STRIPPER, CLAUS UNIT, BEVIN TAILGAS CATALYTIC UNIT, STRETFORD UNIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/13/1984

ID NUMBER WA-0010

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 9010.00 BPD

COMPANY NAME/SITE LOCATION SOUND REFINING, INC.
2628 MARINE VIEW DRIVE TACOMA, WA 98422

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. N/C 2439
DETERMINATION MADE BY PUGET SOUND APCA (AGENCY) HARRY WATTERS (AGENCY CONTACT PERSON) (206)-344-7334 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/17/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CRACKER, FLUIDIZED BED CATALYTIC	9010.00 BPD				
		PM	0.0100 GR/DSCF	ESP	
		SO2	100.0000 PPM	UOP CATALYST	99.00
		NOX	60.0000 PPM		
		CO	50.0000 PPM	WASTE HEAT BOILER	

NOTES ----------
SUBJECT TO THE REQUIREMENTS OF SUBPARTS J AND GGG OF 40CFR PART 60. ALL EMISSIONS CORRECTED TO 7% O2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/13/1984 INITIAL REVIEW POST STARTUP

ID NUMBER WA-0010A

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION

COMPANY NAME/SITE LOCATION SUNLAND REFIN. CORP. BAKERSFIELD, CA

DETERMINATION IS LAER FOR A MODIFIED SOURCE.
PERMIT NO. SJ-79-22
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/22/80
ESTIMATED DATE OF START-UP--
(415)-454-8066 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANKS		VOC		DOUBLE SEAL INTERNAL FLOATING ROOF OR VAPOR RECOVERY	
LOADING RACKS		VOC	30.0000 MG/L OF PRODUCT	CARBON ABSORPTION SYS	
TANK TRUCKS		VOC		TRAILER TANKS TO BE LEAK TIGHT	
VALVES/FLANGES/PUMPS/COMPRESSORS		VOC		FUGITIVE I&M PROGRAM	
WORK WATER SEPARATOR		VOC		REQUIRED TO BE COVERED	
SUMP		VOC		REQUIRED TO BE COVERED	

(CONTINUED) SUNLAND REFIN. CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS TURNAROUNDS					
VACUUM DEVICES		VOC		VENT DEPRESSURED & PURGED TO FUEL GAS SYS	
PRESSURE RELIEF VALVES		VOC		VENTED TO FUEL GAS SYS	
COMBUSTION SOURCES		VOC		VENTED TO FLARE SYS & INCINERATED	LAER
		SO2	0.0300 GR/DSCF H2S		
		NOX	50.0000 PPM 3% O2		LAER
SULFUR RECOVERY PLANT				LOW NOX BURNERS	BACT
				NON-CATALYTIC AMMONIA INJECTION	
		SO2	1.0000 LB/H		LAER

NOTES ----------
A)VAPOR COLLECTION SYS MUST BE VAPOR TIGHT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 04/04/1984

ID NUMBER CA-0003

SOURCE TYPE CODE 5.6

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 26000.00 BPSD

COMPANY NAME/SITE LOCATION SWANN OIL CO. CHESAPEAKE, VA CHESAPEAKE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 78VA04
DETERMINATION MADE BY EPA REGION III (AGENCY) EILEEN GLEN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/30/81
ESTIMATED DATE OF START-UP--
(215)-597-8187 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, CRUDE UNIT ATMOS.	94.00 MMBTU/H				
		PM	9.0000 LB/H		
		SO2	18.0000 LB/H		BACT
				0.37% S IN FUEL	BACT
		NOX	36.0000 LB/H		
				2 STAGE + OFF-STOICH. COMB.	BACT
		CO	3.0000 LB/H		
				GOOD OPERATION	BACT
HEATER, CRUDE UNIT VACUUM	18.00 MMBTU/H				
		PM	2.0000 LB/H		
		SO2	3.0000 LB/H		BACT
				S IN FUEL 0.3%	
		NOX	7.0000 LB/H		
				2 STAGE + OFF-STOICH. COMB.	BACT
		CO	1.0000 LB/H		
				GOOD OPERATION	BACT
HEATER, VISBREAKER	44.00 MMBTU/H				
		PM	4.0000 LB/H		
		SO2	8.0000 LB/H		BACT
				S IN FUEL 0.3%	BACT
		NOX	17.0000 LB/H		
				2 STAGE + OFF-STOICH. COMB.	BACT

CO	1.0000 LB/H GOOD OPERATION		BACT

(CONTINUED) SHANN OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, NAPHTHA REFORMER	50.00 MMBTU/H				
		PM	1.0000 LB/H		BACT
		SO2	0.3000 LB/H		BACT
				BURN REFINERY GAS <0.0063% S	
		NOX	11.0000 LB/H		BACT
				2 STAGE + OFF-STOICH. COMB.	
		CO	1.0000 LB/H		BACT
				GOOD OPERATION	
HEATER, NAPHTHA HYDRODESULFURIZ*	16.00 MMBTU/H				
		PM	0.3000 LB/H		BACT
		SO2	0.1000 LB/H		BACT
				BURN REFINERY GAS <0.0063% S	
		NOX	4.0000 LB/H		BACT
				2 STAGE + OFF-STOICH. COMB.	
		CO	0.3000 LB/H		BACT
				GOOD OPERATION	
HEATER, DISTILLATE HYDRODESULFU*	16.00 MMBTU/H				
		PM	0.3000 LB/H		BACT
		SO2	0.1000 LB/H		BACT
				BURN REFINERY GAS <0.0063% S	
		NOX	4.0000 LB/H		BACT
				2 STAGE + OFF-STOICH. COMB.	
		CO	0.3000 LB/H		BACT
				GOOD OPERATION	
BOILER, STEAM	29.00 MMBTU/H				
		PM	0.5000 LB/H		BACT
		SO2	0.2000 LB/H		BACT
				BURN REFINERY GAS <0.0063% S	
		NOX	7.0000 LB/H		BACT
				2 STAGE & STOICHIOMETRIC COMB	
		CO	0.6000 LB/H		BACT
				GOOD OPERATION	
EMERGENCY FLARE SYS					
		SO2	0.0100 LB/H		BACT
		NOX	0.2000 LB/H		BACT

(CONTINUED) SWANN OIL CO.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
POWER PLANT, TANKER	VARIABLE				
		PM	14.0000 LB/H		BACT
		SO2	211.0000 LB/H		BACT
		NOX	64.0000 LB/H		BACT
		CO	1.0000 LB/H		BACT
RECOVERY UNIT, CLAUS SULFUR					
		SO2	14.0000 LB/H		BACT

NOTES ----------
SO2 EMISSIONS FROM ATMOSPHERIC HEATER, VACUUM HEATER, & VISBREAKER HEATER SHALL NOT EXCEED THE SPECIFIED EMISSION RATES ON A 2 4-HOUR ROLLING AVERAGE BASIS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/83

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM REFINING - ENTIRE OPERATION 200.00 MBPSD

COMPANY NAME/SITE LOCATION VIRGIN ISLANDS REFINERY CORP. ESTATE BETHLEHAM ST. CROIX, VI

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NONE
DETERMINATION MADE BY EPA REGION II (AGENCY) ED NOWAK (AGENCY CONTACT PERSON) (212)-264-8690 (PHONE)
DATE OF PERMIT ISSUANCE-- 09/04/81
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, FOSSIL FIRED, 3	175000.00 BBL/D				
		CO	14.0000 T/YR	GOOD BOILER OPERATION	BACT
		VOC	3.0000 T/YR	GOOD BOILER OPERATION	BACT
		NOX	0.2000 LB/MMBTU GAS		BACT
			0.3000 LB/MMBTU OIL		BACT
		PM	0.3520 LB/MMBTU		BACT
		SO2	20.0000 PPM H2S GAS		BACT
			0.3300 % S BY WT, OIL		BACT
HYDROGEN PLANT					
		CO	105.0000 T/YR	GOOD BOILER OPER./NO FUEL OIL	BACT
		VOC	19.0000 T/YR	GOOD BOOILER OPER./NO FUEL OIL	BACT
		NOX	1088.0000 T/YR	STOICHIO. COMBST./NO FUEL OIL	BACT
		PM	0.3520 LB/MMBTU		BACT
		SO2	3.0000 T/YR	NO GAS<.1 GR/DSCF H2S	BACT

(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PROCESS HEATERS					
		CO	369.0000 T/YR	GOOD BOILER OPERATION	BACT
		VOC	72.0000 T/YR	GOOD BOILER OPER.	BACT
		NOX	0.3000 LB/MMBTU OIL		BACT
			0.2000 LB/MMBTU ALT. FUELS		
		PM	0.3520 LB/MMBTU		BACT
		SO2	3683.0000 T/YR		BACT
				OIL<.33%S WT/ALT<.1GR/DSCF H2S	
FCC UNIT	175000.00 BBL/D				
		CO	565.0000 T/YR		NSPS
		VOC	3247.0000 T/YR		BACT
				GOOD BOILER OPER.	
		NOX	0.3000 LB/MMBTU OIL		BACT
			0.2000 LB/MMBTU ALT. FUELS		
		PM	1.0000 LB/MLB COKE BURN		LAER
			0.1000 LB/MMBTU SUPP. OIL		
		SO2	79.0000 T/YR		NSPS
				OIL<.33%S WT/ALT<.1GR/DSCF H2S	
SULFUR RECOVERY PLANT					
		CO	29.0000 T/YR		BACT
				GOOD HEATER OPERATION	
		VOC	35.0000 T/YR		BACT
				GOOD HEATER OPERATION	
		NOX	0.3000 LB/MMBTU OIL		BACT
			0.2000 LB/MMBTU ALT.		
		PM	0.3520 LB/MMBTU		BACT
		SO2	365.0000 T/YR		NSPS
				CLAUS SYS. W/ 3 UNITS	
				OIL<.33S WT/ALT<.1GR/DSCF H2S	
PETROLEUM LIQUID STORAGE TANKS					
		VOC	937.0000 T/YR		NSPS
				FLOATING ROOF TANKS	

(CONTINUED) VIRGIN ISLANDS REFINERY CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PUMPS, SEALS, VALVES, FLANGES					
MARINE LOAD & UNLOAD FACILITY		VOC	177.0000 T/YR		BACT
		VOC	64.0000 T/YR	SEALS	SIP
INCINERATOR, MULTI-CHAMBER		CO		NONE GOOD OPERATION	BACT
		NOX		NONE GOOD OPERATION	BACT
API WASTE OIL SEPERATOR		PM	0.3000 LB/H		
		VOC	436.0000 T/YR	FIXED COVER/FOAM SPHERES	NSPS

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP

REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- BULK TERMINALS

COMPANY NAME/SITE LOCATION AMOCO OIL CO., GRANVILLE MILWAUKEE, WI

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. MAN-03-80-41-064
DETERMINATION MADE BY WISCONSIN DNR (AGENCY) ELIZABETH SPAETH (AGENCY CONTACT PERSON) (414)-257-4929 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/23/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TERMINAL	214494.00 MGAL GASOLI*	VOC	30.0000 MG/L	FLOAT ROOF & VAPOR RECOVERY SYS.	LAER 97.00
TERMINAL	71358.00 MGAL #2 OIL	VOC	80.0000 MG/L		
		VOC	30.0000 MG/L		

NOTES ----------
OFFSET OBTAINED BY CLOSING JONES ISLAND TERMINAL, EXTRA EMISSIONS BANKED 41.55 TPY

LAER

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER WI-0005

SOURCE TYPE CODE 5.7

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- BULK TERMINALS

COMPANY NAME/SITE LOCATION ASHLAND PETROLEUM CO.
30TH & JONES ST.
COVINGTON, KY 41015
KENTON COUNTY

DETERMINATION IS BACT
PERMIT NO. C-81-37
DETERMINATION MADE BY KENTUCKY DAPC (AGENCY) BILL DILLS (AGENCY CONTACT PERSON) (502)-564-3382 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/01/81
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOTTOM FILL LOADING RACK	3000.00 GAL/MIN	VOC	80.0000 MG/L GROUND LOADING	CARBON ABSORPTION	

NOTES ----------
THIS PERMIT GRANTED UNDER A VOC BUBBLE REQUEST TO ALIEVATE RETROFITTING EXISTING TANKS W/FLOATING ROOFS. PERMIT N/A TO BACT/LA
ER.
THIS BUBBLE SET THE ALLOWABLE AT 30000. MG/L

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- BULK TERMINALS 476000.00 BBL

COMPANY NAME/SITE LOCATION BAYTANK INC., HOUSTON SEABROOK, TX
HARRIS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 8865
DETERMINATION MADE BY TEXAS ACB (AGENCY) STUART KEIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/12/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STORAGE TANKS, 49	CAPACITY VA*	VOC	FLARING EMIS., SEE NOTE 2 MAT. W/>0.5 PSIA VAP. PRESS.	BACT 99.00
WASTE WATER SEPERATOR, SEE NOTE*		VOC	COVERS W/VENTS TO FLARES	BACT 99.00

NOTES ----------
NOTE 1 - WASTE WATER SEPARATOR INCLUDES 2 DECANTERS & DOUBLE SKIMMER SYS. NOTE 2 - ALSO MATERIALS WITH < 0.5 PSIA VAP. PRESS. BUT WITH ODOR OR TOXICITY EFFECTS ARE REQUIRED TO MEET THESE EQUIPMENT STANDARDS / TO USE ADSORBERS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- BULK PLANTS 1.00 MMGAL/D

COMPANY NAME/SITE LOCATION TIME OIL CO. RICHMOND, CA

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 27611
DETERMINATION MADE BY BAY AREA AQMD (AGENCY) KELLY WEE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/23/80
ESTIMATED DATE OF START-UP-- 1981
(415)-771-6000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GASOLINE BULK LOADING RACK	1.00 MMGAL/D	VOC	91.0000 LB/D 90.0000 LB/MMGAL	CARBON ADSORPTION	BACT 98.60

NOTES ----------
SOURCE TEST #83062. FILE A 350-004

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/19/1984

ID NUMBER CA-0051

SOURCE TYPE CODE 5.8

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- STORAGE OF PETROLEUM LIQUIDS

COMPANY NAME/SITE LOCATION MCKESSON CHEMICAL CO. TULSA, OK

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. SEE NOTE
DETERMINATION MADE BY TULSA CITY-COUNTY HEALTH DEPT (AGENCY) BILL GIBBONS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/01/81
ESTIMATED DATE OF START-UP--
(918)-744-1000 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DRUM FILLING FACILITY		VOC	VAPOR RECOVERY LOOP	90.00

NOTES ----------
DRUM FILLING FACILITY USED FOR WHOLESALING VARIOUS CHEMICALS. CONSERVANTS INSTALLED ON SHORTAGE TANKS, TOTAL STORAGE CAPACITY 60000 GALLONS. NOTE - PERMIT # T79-78 THRU T79-83 & T78-068

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER OK-0011

SOURCE TYPE CODE 5.9

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION COLUMBIA GAS TRANSMISSION CORP. SUGAR GROVE, OH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 0123000137
DETERMINATION MADE BY OHIO EPA CD (AGENCY) GEORGE DEMIS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/13/81
ESTIMATED DATE OF START-UP--
(614)-864-3195 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NAT. GAS FIRED I. C. ENGINES		NOX	5.0000 G/HP-H	ENGINE DESIGN	
		CO	2.0000 G/HP-H	ENGINE DESIGN	
		VOC	0.3000 G/HP-H	ENGINE DESIGN	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

ID NUMBER OH-0024

SOURCE TYPE CODE 5.11

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS

COMPANY NAME/SITE LOCATION CRYSEN REFINING, WESTERN DIV. WOODS CROSS, UT

DAVIS COUNTY

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY UTAH BAQ (AGENCY) DONALD ROBINSON (AGENCY CONTACT PERSON) (801)-533-6108 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/12/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NAPTHA TANK, 2	365000.00 BBL/YR EA	VOC		INTERNAL FLOATING ROOF	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER UT-0027

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 02/13/1984

SOURCE TYPE CODE 5.11

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS 22600.00 GAL/D

COMPANY NAME/SITE LOCATION DEPT. OF THE NAVY CORPUS CHRISTI, TX
NUECES COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X3818
DETERMINATION MADE BY TEXAS ACB (AGENCY) STUART KEIL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/15/82
ESTIMATED DATE OF START-UP-- 1984
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
LOADING RACK/STORAGE TANKS, 2	6000.00 BBL	VOC	NIL EMISSIONS DISPLACED VAPORS ROUTED TO FLARE	99.90

NOTES ----------
15% OF DISPLACED VAPORS ARE ASSUMED TO BE NOT COLLECTED DUE TO FUGITIVE LOSSES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS 2000.00 MMCFD

COMPANY NAME/SITE LOCATION NORTHERN ALASKAN PIPELINE , AK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-03-09
DETERMINATION MADE BY EPA REGION X (AGENCY) PAUL BOYS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/23/81
ESTIMATED DATE OF START-UP--
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MAINLINE COMPRESSOR TURBINE		NOX	150.0000 PPM 80.0000 KG/H	DRY CONTROLS	BACT
REFRIG. COMPRESSOR TURBINE		NOX	150.0000 PPM 38.0000 KG/H	DRY CONTROL	BACT
ELECT. GEN. TURBINE		NOX	150.0000 PPM 15.0000 KG/H	DRY CONTROL	BACT
GLYCOL HEATER MISC.		NOX	43.0000 NG/J 4.0000 KG/H	LOW NOX BURNERS	BACT

NOTES ----------
ABOVE LIMITS ARE FOR 1 COMPRESSOR STATION, 7 WILL BE BUILT ALONG PIPELINE. ALSO TOTAL LIMIT FOR EACH STATION OF 175 KG/HR OR 1 517 METRIC TONS PER YEAR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER AK-0002

SOURCE TYPE CODE 5.11

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- TRANSPORT & MARKETING - PETROLEUM PRODUCTS 933.00 MBBL/D

COMPANY NAME/SITE LOCATION NORTHERN TIER , AK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-X81-14
DETERMINATION MADE BY EPA REGION X (AGENCY)
PAUL BOYS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/14/81
ESTIMATED DATE OF START-UP--
(206)-442-1193 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF

NOTES ----------
FOR PERMIT CONDITIONS, SEE ATTACHMENT, ALL ARE BASED ON TECHNOLOGY AND ECONOMICS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 55000.00 HP

COMPANY NAME/SITE LOCATION AMERADA HESS
P.O. BOX 2040 TULSA, TX 74012
GAINES COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-328 DATE OF PERMIT ISSUANCE-- 05/14/81
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, NAT. GAS, COMPERSSOR, 3*	1600.00 HP				
		NOX	10.6000 G/HP-H	ADJUSTED AIR FUEL RATIO	BACT
		VOC	53.0000 T/YR	NORMAL EQUIP. OPERATION	BACT
		CO	1.4000 G/HP-H	NORMAL EQUIP. OPERATION	BACT
		SO2	0.2500 T/YR	NORMAL EQUIP. OPERATION	BACT
		PM	TRACE	NORMAL EQUIP. OPERATION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 250.00 MMCFD

COMPANY NAME/SITE LOCATION AMOCO PRODUCTION UINTA, WY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-272
DETERMINATION MADE BY WYOMING AQD (AGENCY) BERNIE DAILEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/20/79
ESTIMATED DATE OF START-UP-- 1983
(307)-777-7391 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, GAS, 2 EA	65.50 MMBTU/H	NOX	0.2000 LB/MMBTU	DESIGN	BACT
HEATER, GAS	33.30 MMBTU/H	NOX	0.2000 LB/MMBTU	DESIGN	BACT
HEATER, GAS	7.10 MMBTU/H	NOX	0.2000 LB/MMBTU	DESIGN	BACT
INCINERATOR, SULFUR PLANT		SO2	311.5000 LB/H	CLAUS & CBA	BACT 98.60

NOTES ----------
AN EXTENSIVE BACT ANALYSIS BASED ON ECONOMIC, ENERGY, & ENVIRONMENTAL FACTORS COMPARING CLAUS-CBA TO CLAUS-SCOT WAS PERFORMED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS SEE NOTE

COMPANY NAME/SITE LOCATION AMOCO PRODUCTION CO. , ND
BILLINGS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY NORTH DAKOTA SHD (AGENCY) GARY HELBLING (AGENCY CONTACT PERSON) (701)-224-2348 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/12/83
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR STACK	SEE NOTE	SO2	SEE NOTE	CLAUS UNIT & CBA	BACT 98.60

NOTES ----------
THE PLANT IS TO BE CONSTRUCTED IN THREE STEPS. THE PLANT WILL PROGRESS FROM A 25 MMCF/D PLANT WITH AN EMISSION LIMIT OF 62.25 LB/H SO2, TO A 50 MMCF/D PLANT WITH AN EMISSION LIMIT OF 124.5 LB/H SO2 & THEN TO A 100 MMCF/D PLANT WITH AN EMISSION LIMIT OF 249 LB/H SO2.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER ND-0003

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION ATW COMPANY ISABELLA TWP, MI ISABELLA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 631-82B
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) LAURA OTWELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/28/83
ESTIMATED DATE OF START-UP-- 1983
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS SWEETENING AMINE FACILITY	2.30 MMCF/D				
		SO2	24.0000 LB/H		
				2 STAGE CAUST. SCRUBB..INCINERATOR	99.99

NOTES ----------
RULE 403(4) OF THE MICHIGAN APC RULES REQUIRE BACT ON ALL NEW SWEETENING FACILITIES. DETERMINATION IS BASED ON DETAILED ECONOM IC ANALYSIS AND EXPECTED EFFICIENCIES OF VARIOUS CONTROL SYSTEMS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

	INITIAL REVIEW	POST STARTUP
REVIEW STATUS:	04/19/1984	03/13/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MMCFD

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM , WY
UINTA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-515
DETERMINATION MADE BY WYOMING AQD (AGENCY) CHUCK COLLINS (AGENCY CONTACT PERSON) (307)-777-7391 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/08/83
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR, 2 EA	2250.00 HP				
		NOX	4.0000 G/HP-H		BACT
			DESIGN		
		CO	2.0000 G/HP-H		BACT
			DESIGN		
		VOC	0.5000 G/HP-H		BACT
			DESIGN		
		SO2	0.8900 LB/H		BACT
HEATER, GAS	3.75 MMBTU/H				
		NOX	0.2300 LB/MMBTU		BACT
		CO	0.0200 LB/MMBTU		BACT
		SO2	0.3000 LB/H		BACT
TURBINE, 2 EA	886.00 HP				
		NOX	1.0800 G/HP-H		BACT
			DESIGN		
		CO	2.0000 G/HP-H		BACT
			DESIGN		
		VOC	0.0100 G/HP-H		BACT
			DESIGN		
		SO2	0.5800 LB/H		BACT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

NOTES ----------
SO2 EMISSIONS LIMITS BASED ON FUEL S CONTENT OF LESS THAN 20 GR/100 SCF.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER WY-0005

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 260.00 MMCFD

COMPANY NAME/SITE LOCATION CHAMPLIN PETROLEUM CO.
P.O. BOX 310 CARTHAGE, TX PONALA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-206
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 01/11/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I. C. ENGINE	800.00 HP	NOX	19.2000 LB/H 24.0000 LB/MHP-H	CNTRL AIR/FUEL RATIO, IGN TIM.	BACT
I. C. ENGINE, 2	1050.00 HP EA	NOX	25.2000 LB/H EA 24.0000 LB/MHP-H	CNTRL AIR/FUEL RATIO, IGN TIM.	BACT
I. C. ENGINE, 2	730.00 HP EA	NOX	16.4000 LB/H 24.0000 LB/MHP-H	CNTRL AIR/FUEL RATIO, IGN TIM.	BACT

NOTES ----------
MODIFICATION -- INCREASED CAPACITY FROM 220 MMCFD TO 260 MMCFD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER TX-0069

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 420.00 MMCFD

COMPANY NAME/SITE LOCATION CHEVRON U.S.A. UINTA, WY

DETERMINATION IS
PERMIT NO. CT-297
DETERMINATION MADE BY WYOMING AQD (AGENCY) LEE GRIBOVICZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/28/80
ESTIMATED DATE OF START-UP-- 1983
(307)-332-3144 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR PLANT & TGU, 3 EA	1000.00 T/D				
		CO	220.0000 LB/H		BACT
		COS	460.0000 LB/H		BACT
		H2S	8.2000 LB/H		BACT
				3 STAGE CLAUS - BEAVON	99.70
REHEATER, STACK GAS, 3 EA	23.00 MMBTU/H				
		NOX	0.2000 LB/MMBTU		BACT
				DESIGN	
HEATER, GLYCOL STILL, 3 EA	10.00 MMBTU/H				
		NOX	0.2000 LB/MMBTU		BACT
				DESIGN	
HEATER, PROCESS, 3 EA	62.50 MMBTU/H				
		NOX	0.2000 LB/MMBTU		BACT
				DESIGN	
FURNACE, GAS, 3 EA	10.00 MMBTU/H				
		NOX	0.2000 LB/MMBTU		BACT
				DESIGN	

(CONTINUED) CHEVRON U.S.A.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, GAS, 6 EA	93.80 MMBTU/H	NOX	0.2000 LB/MMBTU DESIGN		BACT

NOTES ----------
CONSTRUCTED IN 3 PHASES. EACH PHASE CONSISTS OF PROCESSING TRAIN WITH A 1000 T/D SULFUR RECOVERY CAPACITY. TGU REPRESENTS A TH
ERMAL GASSIFICATION UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS:

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MMCFD

COMPANY NAME/SITE LOCATION CIG , WY
SWEETWATER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-58
DETERMINATION MADE BY WYOMING AQD (AGENCY) LEE GRIBOVICZ (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 08/25/76
ESTIMATED DATE OF START-UP-- 1977
(307)-332-3144 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
THERMAL GASSIFICATION UNIT STACK					
		SO2	0.1350 % V AT 0% O2, DRY BASIS	3 STAGE CLAUS & AMMONIA ADSORPTION	BACT 98.90
BOILER, GAS, 2	48.40 MMBTU/H				
		NOX	0.2000 LB/MMBTU	DESIGN	SIP

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 3.09 MMCFD

COMPANY NAME/SITE LOCATION CRYSTAL EXPLORATION CO. MARATHON TWP, MI
LAPEER COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 238-80E
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) GREGORY EDWARDS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 11/30/82
ESTIMATED DATE OF START-UP-- 1983
(517)-322-1333 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SWEETENING FACILITIES	3.09 MMCF/D				
		H2S	96.0000 %	REMOVAL FROM ACID GAS STRM TWO STAGE CAUSTIC SCRUBBER	96.00
		SO2	1350.0000 LB/D	SOUR GAS INCINERATOR	99.50

NOTES ----------
MICHIGAN REGULATIONS REQUIRE BACT FOR ALL NEW NATURAL GAS SWEETENING FACILITIES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 04/19/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 1642.50 MMSCF/YR

COMPANY NAME/SITE LOCATION CRYSTAL OIL CO. HOSSTON, LA

CADDO PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-LA-510
DETERMINATION MADE BY LAQD/EPA REGION VI (AGENCY) NAN KILLEEN (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/19/83
ESTIMATED DATE OF START-UP--
(504)-342-6940 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FLARE, #3-81	300.00 BTU/SCF	SO2	144.4800 LB/H		

NOTES ----------
NO APPLICABLE NSPS FOR GAS PROCESSING PLANTS. PERMIT INCLUDES PROVISION FOR RE-EVALUATION OF BACT, DEPENDING UPON H2S CONTENT OF SOUR GAS STEAM.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MMCFD

COMPANY NAME/SITE LOCATION DELHI GAS PIPELINE CORP. ATHENS, TX
HENDERSON COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 8628
DETERMINATION MADE BY TEXAS ACB (AGENCY) STUART KEIL (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/29/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS PROCESSING PLANT - SULFUR	37.70 LT/D	SO2	92.9000 T/YR 400.0000 PPM	3 STAGE CLAUS PLANT/SCOT TAIL GAS	99.70
GAS PROCESSING PLANT - GAS	60.00 MMCF/D	H2S	1.3000 T/YR 10.0000 PPM		

NOTES ----------
CONCENTRATIONS OF SO2 AND H2S ARE CALCULATED ON A DRY, OXYGEN FREE BASIS AT INCINERATOR EXIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 11.50 MMCFD

COMPANY NAME/SITE LOCATION ENDERCO
GARLAND, AR
MILLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-704-A
DETERMINATION MADE BY ARKANSAS DEP (AGENCY) CECIL HARRELL (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/23/83
ESTIMATED DATE OF START-UP-- 1983
(501)-562-7444 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
AMINE SWEETENING CLAUS	11.50 MMCF/D				
		SO2	155.0000 LB/H	CLAUS PLANT	BACT 90.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER AR-0011

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 15.00 MMCFD

COMPANY NAME/SITE LOCATION ETEXAS PRODUCERS GAS CO. , TX

SMITH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-3832
DETERMINATION MADE BY TEXAS ACB (AGENCY) JENNIFER SEINFELD (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/05/82
ESTIMATED DATE OF START-UP-- 1983
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HOT OIL HEATER	2.26 MMBTU/H	NOX	2.1000 T/YR	SWEET NAT GAS FIRED	AP42
REGENERATION HEATER	1.31 MMBTU/H	NOX	1.4000 T/YR	SWEET NAT GAS FIRED	AP42
COMPRESSOR	700.00 HP	VOC	3.0300 T/YR 4.4000 G/HP-H		
		NOX	67.0000 T/YR 10.0000 G/HP-H		
		CO	9.0000 T/YR 1.4000 G/HP-H		
FLARE, EMERGENCY		VOC	24.0000 T/YR		AP42

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 24.00 MMCFD NAT GAS

COMPANY NAME/SITE LOCATION EXXON CO., U.S.A.
6 MI. N. GILMER W. HWY 271 GILMER, TX
UPSHAW COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-362
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/09/82
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... FCT EFF
DIETHENOLAMINE (DEA) REGEN.	4.50 MMBTU/H				
		SO2	0.0004 LB/MMBTU	NAT. GAS AS FUEL	
GLYCOL RECONCENTRATOR	0.72 MMBTU/H				
		SO2	0.0003 LB/MMBTU	NAT. GAS AS FUEL	
FLARE					
		SO2	129.3500 LB/H	SMOKELESS,NO OTHER TECH. FEAS.	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 60.00 MMCFD

COMPANY NAME/SITE LOCATION LIQUID ENERGY CORP. NEAR ARTESIA, NM

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. NM-389
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 12/10/81
ESTIMATED DATE OF START-UP-- 1981
(505)-984-0020 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H LOW NOX ENGINE	
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H LOW NOX ENGINE	
ENGINE, I.C. COMPRESSOR	2000.00 HP	NOX	3.4000 G/HP-H LOW NOX ENGINE	

NOTES ----------
STACK TESTS, EPA REF. METHOD 20, WERE PERFORMED ON ALL THREE ENGINES & THE ACTUAL EMISSIONS WERE 2.01 G/HP-H, 2.6 G/HP-H, & 3.28 G/HP-H

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION MAPCO PRODUCTION CO. NEAR ROSWELL, NM

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-NM-576
DETERMINATION MADE BY AIR QUALITY BUREAU - NMEID (AGENCY) SHANKAR ANANTHAKRISHNA (AGENCY CONTACT PERSON) (505)-984-0020 (PHONE)

DATE OF PERMIT ISSUANCE-- 01/14/83
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACID GAS FLARE	7.50 MMSCFD				
		SO2	703.0000 LB/H	DIETHANOL AMINE UNIT	
ENGINE, I.C. COMPRESSOR	446.00 HP				
		NOX	9.0000 G/HP-H	AIR/FUEL RATIO	
ENGINE, I.C. COMPRESSOR	670.00 HP				
		NOX	9.0000 G/HP-H	AIR/FUEL RATIO	
ENGINE, I.C. COMPRESSOR	507.00 HP				
		NOX	9.0000 G/HP-H	AIR/FUEL RATIO	
ENGINE, I.C. COMPRESSOR	278.00 HP				
		NOX	9.0000 G/HP-H	AIR/FUEL RATIO	

NOTES ----------
STACK TESTS, EPA REF. METHOD 7, WERE PERFORMED ON 'LL FOUR ENGINES & EMISSIONS WERE 7.1 G/HP-H.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER NM-0007

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 7.10 MMCFD

COMPANY NAME/SITE LOCATION MARATHON OIL CO. , WY
PARK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-479
DETERMINATION MADE BY WYOMING AQD (AGENCY) CHUCK COLLINS (AGENCY CONTACT PERSON) (307)-777-7391 (PHONE)
DATE OF PERMIT ISSUANCE-- 01/20/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STILL, GLYCOL	0.76 MMBTU/H				
HEATER, HOT OIL	14.20 MMBTU/H	NOX	0.2000 LB/MMBTU		SIP
INCINERATOR, SULFUR PLANT	2.50 MMBTU/H	NOX	0.2000 LB/MMBTU		SIP
		SO2	79.8000 LB/H 31.9000 LB/MMBTU		BACT
				5 LTD CLAUS	90.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER WY-0002

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 12.50 MMCFD

COMPANY NAME/SITE LOCATION MOUNTAIN FUEL SUPPLY UINTA, WY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. CT-117
DETERMINATION MADE BY WYOMING AQD (AGENCY) LEE GRIBOVICZ (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/01/78
ESTIMATED DATE OF START-UP-- 1980
(307)-332-3144 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR, SULFUR PLANT					
		SO2	0.1630 % V AT 0% O2, DRY BASIS		BACT
		CO	0.0523 % V AT 0% O2, WET BASIS		BACT
				2 STAGE CLAUS PLUS CBA	98.60
TURBINE, GAS, 2 EA	788.00 HP				
		CO	0.0072 % V AT 0% O2, WET BASIS		BACT
			DESIGN		

NOTES ----------
BACT ANALYSIS - SCOT VS. CBA

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PACIFIC ALASKA LNG ASSOCIATES KENAI, AK

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 8423-AA002
DETERMINATION MADE BY ALASKA DEC (AGENCY) DAVE ESTES (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/30/84
ESTIMATED DATE OF START-UP-- 1987
(907)-465-2666 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
HEATER, PROCESS, GAS FIRED, 5		NOX	38.0000 NG/J 0.0900 LB/MMBTU	LOW NOX BURNERS	BACT

NOTES ----------
THIS BACT DETERMINATION RESULTED FROM AN 18 MONTH REQUEST FOR EXTENSION AT A FACILITY PREVIOUSLY PERMITTED BY EPA REGION 10.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILADELPHIA GAS WORKS PHILADELPHIA, PA
PHILADELPHIA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 78PA03
DETERMINATION MADE BY EPA REGION III (AGENCY) VERNON BUTLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/15/79
ESTIMATED DATE OF START-UP--
(215)-597-2711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	110.00 MBTU/H				
		PM	5.4000 LB/H		BACT
		SO2	75.0000 LB/H	STRETFORD LOW S FUEL	BACT
		NOX	74.0000 LB/H		BACT
STORAGE TANKS	1.00 MMBBL/YR				
		VOC	91.0000 T/YR	DBL SEALS, FLOAT. ROOF TANKS	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 30.00 MMCFD

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO. , ND

WILLIAMS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY NORTH DAKOTA SHD (AGENCY) GARY HELBING (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 10/25/82
ESTIMATED DATE OF START-UP-- 1983
(701)-224-2348 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR STACK	30.00 MMCF/D				
		SO2	93.3000 LB/H	CLAUS PLANT	BACT 98.50

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: 04/01/1983 INITIAL REVIEW POST STARTUP

ID NUMBER ND-0002

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO.
HWY 126 15 MI. S. OF MALJAMAR MALJAMAR, NM
LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-389
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BENHAM (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 10/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C. COMPRESSOR, 2 EA	585.00 HP EA	NOX	11.0000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------
2 INTERNAL COMBUSTION COMPRESSOR ENGINES.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER NM-0003

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PHILLIPS PETROLEUM CO. PHILLIPS BUILDING — BARTLESVILLE, TX 74009

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-314
DETERMINATION MADE BY EPA REGION VI (AGENCY) — JOE WINKLER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/30/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. COMPRESSOR ENGINES	650.00 HP EA	NOX	12.4000 G/HP-H	AIR/FUEL RATIO	BACT
TURBINE COMPRESSOR ENGINES	3000.00 HP EA	NOX	1.8000 G/HP-H	NORMAL OPERATION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER TX-0045

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION PROCESS EQUIPMENT CORP. MAYFIELD, MI
GRAND TRAVERSE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 813-81
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) DAVID FERRIER (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/23/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SOUR GAS SWEETENER	10.00 MMSCFD				
		SO2	81.1000 LB/MMSCF		
				CLAUS UNIT	85.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 03/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 39.00 MMBTU/H

COMPANY NAME/SITE LOCATION REPUBLIC REFINING CO. JOHNS, MS
RANKIN COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-MS-037
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY) DWIGHT WILEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/03/81
ESTIMATED DATE OF START-UP--
(601)-354-2550 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NAT. GAS PROCESSING-SULFUR RECO*	50.00 MMCF/D	SO2	0.0030 LB/H EA	TREATED NAT. GAS FOR BOILERS	BACT

NOTES ----------
TWO BOILERS

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER MS-0004

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS

COMPANY NAME/SITE LOCATION SHELL OIL CO. FREDERIC TOWNSHIP, MI
SECTION 10 CRAWFORD COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 617-82
DETERMINATION MADE BY MICHIGAN DNR (AGENCY) LAURA STEINBERGER (AGENCY CONTACT PERSON) (517)-322-1333 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/19/83
ESTIMATED DATE OF START-UP-- 1985

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GAS SWEETENING FACILITY	7.00 MMCF/D				
		SO2		3-STAGE CLAUS UNIT	93.50
		SO2	184.0000 LB/H		
			540.0000 LB/H	GROUND LEVEL INCINERATOR	99.90

NOTES ----------
2ND ALTERNATE LIMIT - 2100 LB/D

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/19/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 117.00 MMSCFD

COMPANY NAME/SITE LOCATION SID RICHARDSON CARBON & GASOLINE CO. KERMIT, TX

WINKLER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. 2724
DETERMINATION MADE BY TEXAS ACB (AGENCY) LES MONTGOMERY (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 01/14/81
ESTIMATED DATE OF START-UP-- 1981
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NATURAL GAS TREATING PLANT	117.00 MMSCFD				
		SO2	816.0000 T/YR		
				SELECTOX S RECOV. UNIT	95.00

NOTES ----------
SELECTOX SRU CATALYTICALLY OXIDIZES HYDROGEN SULFIDE EXTRACTED FROM RAW NATURAL GAS TO ELEMENTAL SULFUR. THIS UNIT IS A THREE STAGE PROCESS ACHIEVING AT LEAST 95% CONVERSION TO H2S. THE REMAINDER IS INCINERATED TO SO2. THIS IS A SMALL UNIT IN AN ISOLATED LOCATION.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 10.00 MMCFD

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO.
20 MI. NW OF TATUM VADA, NM 88267
LEA COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-NM-156M-1 DATE OF PERMIT ISSUANCE-- 12/23/81
DETERMINATION MADE BY EPA REGION VI ESTIMATED DATE OF START-UP--
(AGENCY)
TOM DIGGS
(AGENCY CONTACT PERSON)
(214)-767-1594
(PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ACID GAS FLARE	10.00 MMSCFD	SO2	703.0000 LB/H 0.0016 LB/SCF	DIETHANOL AMINE UNIT	

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER NM-0005

SOURCE TYPE CODE 5.12

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- NATURAL GAS/GASOLINE PROCESSING PLANTS 24.00 MMCFD

COMPANY NAME/SITE LOCATION WARREN PETROLEUM CO. , ND

BILLINGS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY NORTH DAKOTA SHD (AGENCY) TERRY O'CLAIR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 01/12/83
ESTIMATED DATE OF START-UP--
(701)-224-2348 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
INCINERATOR STACK		SO2	534.0000 LB/H	CLAUS & CBA	BACT 98.60

NOTES ----------
THIS IS A MAJOR MODIFICATION OF AN EXISTING SOURCE, THE EXISTING SOURCE CURRENTLY PROCESSES 20 - 24 MMCF/D OF GAS WITH AN EMIS
SION RATE LIMITED TO 269 LB/H. AFTER EXPANSION THE NEW SO2 EMISSION RATE WILL BE 534 LB/H & CAN HANDLE
ABOUT ANOTHER 30 MMCF/D.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING

COMPANY NAME/SITE LOCATION KERNRIDGE OIL CO.
BELRIDGE OIL FIELD , CA
KERN COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-79-26
DETERMINATION MADE BY EPA REGION IX (AGENCY) DON HARVEY (AGENCY CONTACT PERSON) (415)-974-8223 (PHONE)
DATE OF PERMIT ISSUANCE-- 04/14/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GEN., 11 EA	50.00 MMBTU/H				
		SO2	0.0650 LB/MMBTU 1.2000 % S FUEL OIL	SO2 SCRUBBER W/ EDUCTOR/VENTURI	95.00 BACT
		NOX	0.2000 LB/MMBTU	LOW NOX BURNERS EXCESS O2 CONTROLLERS	50.00 LAER
		PM	0.0570 LB/MMBTU	SO2 SCRUBBER W/ EDUCTOR/VENTURI	50.00 LAER
		PM	0.0100 LB/MMBTU	SCRUBBER W/ ESP SECTION	90.00
OIL WELL VENTS - EXISTING		VOC		NONE	
OIL WELL VENTS - NEW		VOC		VAPOR RECOVERY	85.00
				NONE SHUT IN WELLS	100.00

NOTES ----------
PM EMISSIONS FROM ONE OF THE UNITS WILL BE CONTROLLED WITH AN ESP WHICH IS AN INNOVATIVE TECHNOLOGY AS APPLIED TO THERMALLY EN
HANCED OIL RECOVERY (TEOR).

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING 130.00 T/YR

COMPANY NAME/SITE LOCATION R.A. CHILDS , UT

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. MIN 083182-5T
DETERMINATION MADE BY UTAH BAQ (AGENCY) DON ROBINSON (AGENCY CONTACT PERSON) (801)-533-6108 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/08/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
DRUM DRYER	130.00 T/H				
		PM	0.0200 GR/DSCF		
			1.4900 LB/H		
				VENTURI SCRUBBER	99.00
		VE	20.0000 % OPACITY		

NOTES ----------
MOBILE ASPHALT PLANT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 02/13/1994

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- ASPHALT & ASSOCIATED PRODUCTS MFG./PROCESSING 30000.00 GAL

COMPANY NAME/SITE LOCATION US OIL & REFINING CO.
3001 MARSHALL AVE. TACOMA, WA 98401

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. N/C 2455
DETERMINATION MADE BY PUGET SOUND APCA (AGENCY) HARRY WATTERS (AGENCY CONTACT PERSON) (206)-344-7334 (PHONE)
DATE OF PERMIT ISSUANCE-- 08/15/83
ESTIMATED DATE OF START-UP-- 1984

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ASPHALT BLOW STILLS, 2	15000.00 GAL EA				
		PM	0.0200 LB/T ASPHALT CHARGED	INCINERATOR	
		SO2	0.1000 GR/DSCF H2S IN FUEL GAS	CONTINOUS MONITORING	95.00

NOTES ----------
APPROVED NOTICE OF CONSTRUCTION AND TRANSMITTAL LETTER DATED 08/15/83. ASPHALT TRUCK LOADING RACK WITH HEAF CONTROL, AND 5 ASP
HALT STORAGE TANKS WITH HIGH ENERGY AIR FILTER, HEAF, CONTROL.
SOURCE CLAIMS CONFIDENTIALITY FOR DETAILS OF PROCESS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/13/1984

ID NUMBER WA-0009

SOURCE TYPE CODE 5.13

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION AMINOIL USA, INC. HUNTINGTON BEACH, CA 92648

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-4-9 LA-82-01
DETERMINATION MADE BY EPA REGION IX (AGENCY) DAVID SOLOMON (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/04/82
ESTIMATED DATE OF START-UP--
(415)-974-8240 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE & WASTE HEAT BOILER	6464.00 KW				
		SOX	14.0000 LB/H		BACT
				FGD SYSTEM	95.00
		BE	0.0000 LB/H		
				WET SCRUBBER & FGD SYSTEM	99.00

NOTES ----------
36.0 BBLS/H OF 1.34% SULFUR CRUDE OIL

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION BEREY HOLDING CO.
MIDWAY-SUNSET OIL FIELD , CA
KERN COUNTY

DETERMINATION IS FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) SJ-79-17
DETERMINATION MADE BY EPA REGION IX (AGENCY) DON HARVEY (AGENCY CONTACT PERSON) (415)-974-8223 (PHONE)
DATE OF PERMIT ISSUANCE-- 02/23/81
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR, ROTARY SCREW,2 EA	500.00 HP				
		VOC	690.0000 PPM (AS CARBON)	INCINERATION IN STEAM GENERATOR AT 2800 F	95.00
COMPRESSORS, RECIP. BOOSTER, 2 *					
		VOC	10.5000 LB/H 3% O2		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 04/04/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 450.00 MMBTU/H

COMPANY NAME/SITE LOCATION CHEVRON USA, INC.
P.O. BOX 5355 BAKERSFIELD, CA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. NSR-4-4-8 SJ-79-32
DETERMINATION MADE BY EPA REGION IX (AGENCY) BOB BAKER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/16/82
ESTIMATED DATE OF START-UP--
(415)-974-8215 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILERS, 9	390.00 GAL/H, EA				
		SO2	18.8000 LB/H	WET SCRUBBERS 1.5% S LIMIT ON FUEL OIL	BACT 90.00
		PM	3.6000 LB/H	WET SCRUBBERS	LAER 50.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP 04/04/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 24.00 MMCF

COMPANY NAME/SITE LOCATION EXXON CO
P. O. BOX 60626 NEW ORLEANS, MS
HINDS COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. MS 030
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY) DWIGHT WILEY (AGENCY CONTACT PERSON) (601)-354-2550 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/04/81
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TEST WELL	25.00 MMCF/D	SO2	745.0000 T/D 30 D MAX	FLARE	99.00

NOTES ----------
TEST FACILITY -- EXPECTED LIFE 120 DAYS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER MS-0001

SOURCE TYPE CODE 5.14

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 426.00 BBL/D

COMPANY NAME/SITE LOCATION GEOKINETICS INC., OIL SHALE 40 MILES S. VERNAL, UT

UINTAH COUNTY

DETERMINATION IS BACT
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 11/13/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GENERATOR	650.00 HP				
		NOX	38.9000 LB/H	DESIGN	BACT
		VE	20.0000 % OPACITY		
INCINERATOR	100.00 BBL/D				
		NOX	45.1000 LB/H	NONE	BACT 0.00
		SO2	135.3000 LB/H	NONE	BACT 0.00
		VE	20.0000 % OPACITY		

NOTES ----------
3.5 YR OPERATION, LIMITED EXPERIMENTAL VARIANCE.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 225.00 MMSCFD

COMPANY NAME/SITE LOCATION MOBIL OIL EXPLORATION , AL MOBILE COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. AL-078
DETERMINATION MADE BY ALABAMA APCD (AGENCY) SUE ROBERTSON (AGENCY CONTACT PERSON) DATE OF PERMIT ISSUANCE-- 10/16/81
ESTIMATED DATE OF START-UP--
(205)-834-6570 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
NAT. GAS SULFUR REMOVAL	225.00 MMSCFD	SO2	200.0000 LB/H EA	CLAUS AND SCOT TAIL GAS REMOVAL	BACT 99.86
DIESEL ENGINES, 4 RIGS	1100.00 HP/ENGINE	CO	9.4000 LB/H-RIG	NONE	
		SO2	7.3000 LB/H-RIG	LOW S FUEL	
		NOX	71.6000 LB/H-RIG	NONE	
		PM	3.4000 LB/H-RIG	NONE	
SUPPLEMENTAL BOILER	50.00 MMBTU/H	NOX	0.2000 LB/MMBTU	STAGED COMBUSTION & LOW EXCESS AIR	
		SO2	1.0000 LB/H	LOW S FUEL	54.00
SULFUR DEPOT BOILER	5.00 MMBTU/H	NOX	0.2000 LB/MMBTU	STAGED COMBUSTION & LOW EXCESS AIR	
		SO2	2.2000 LB/H	LOW S FUEL	37.00

(CONTINUED) MOBIL OIL EXPLORATION

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE GENERATOR, GAS-FIRED	7.50 MW				
		NOX	175.0000	PPM BY VOL NONE	
		SO2	1.0000	LB/H LOW S FUEL	
PLATFORM GENERATORS, 5 EA., GAS*	661.00 HP/ENGINE				
		NOX	146.0000	LB/H-PLATFORM NONE	
		CO	146.0000	LB/H-PLATFORM NONE	
		SO2	1.0000	LB/H-PLATFORM LOW S FUEL	

NOTES ----------
DRILLING PERMIT

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER AL-0010

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 1.00 MBBL/D

COMPANY NAME/SITE LOCATION OXY-LOGAN WASH MODIF.1980 NEAR DE BEQUE, CO

GARFIELD COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 06/27/80
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER, ETC					
		CO	2.0000 LB/H		
		VOC	3.0000 LB/H		BACT
				CONDENSOR	BACT
		NOX	52.0000 LB/H		
				CONDENSOR	BACT
		PM	7.0000 LB/H		60.00
				DUST CONTROL	BACT
RETORT	1000.00 BBL/D	SO2	31.0000 LB/H		50.00
		CO	3640.0000 LB/H		
		VOC	154.0000 LB/H		BACT
				CONDENSOR	BACT
		H2S	376.0000 LB/H		60.00
					BACT

NOTES ----------
OPERATION OVER IN 1982

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER CO-0009

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE)

COMPANY NAME/SITE LOCATION PARAHO DEVELOPMENT CORP. , UT

UINTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY UTAH BAQ (AGENCY) DONALD ROBINSON (AGENCY CONTACT PERSON) (801)-533-6108 (PHONE)

DATE OF PERMIT ISSUANCE-- 11/16/82
ESTIMATED DATE OF START-UP-- 1990

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOLTING, SCALING, HANDLING, DRI*	75000.00 T/D SHALE				
		FUG*			
BLASTING	54000.00 LB ANFO/D			WATER SPRAYING	50.00
		CO			
		NOX			
		FUG*			
CRUSHING	75000.00 T/D			SETTLING	50.00
		PM	0.0150 GR/DSCF	BAGHOUSE	99.90
IN MINE TRANSFER	75000.00 T/D				
		PM	0.0150 GR/DSCF	BAGHOUSE	99.00
MINE MOBILE EQUIPMENT	11730.00 GAL/D DIESE*				
		PM	11.0000 LB/MGAL	SETTLING	50.00
		NOX	385.2000 LB/MGAL	CATALYTIC CONVERTER	10.00
		SO2	31.2000 LB/MGAL		
		VOC	2.8000 LB/MGAL	CATALYTIC CONV.	90.00

CO	4.5000 LB/MGAL		
	CATALYTIC CONV.		95.00

(CONTINUED) PARAHO DEVELOPMENT CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
MATERIAL HANDLING	75000.00 T/D				
		PM	0.0100	GR/DSCF	
				BAGHOUSE	
		PM	0.0150	GR/DSCF	99.00
				BAGHOUSE	
		PM	0.0200	GR/DSCF	99.00
STORAGE PILES	VARIOUS SIZ*			WET SCRUBBERS	99.00
		PM			
				WATER SPRAYS	50.00
HYDROGEN PLANT REFORMER FURNACE	800.00 MMBTU/H				
		PM	15.0000	LB/MMCF	
		CO	17.0000	LB/MMCF	
		VOC	3.0000	LB/MMCF	
		NOX	161.0000	LB/MMCF	
				LOW NOX BURNERS	
		SO2	0.6000	LB/MMCF	30.00
		PM	0.0150	LB/MMBTU	
		CO	0.0170	LB/MMBTU	
		VOC	0.0030	LB/MMBTU	
		NOX	0.1610	LB/MMBTU	
				LOW NOX BURNERS	
		SO2	9.8300	LB/H	30.00
HYDROTREATER FEED FURNACE	41.25 MMBTU/H			HOLMES STRETFORD UNIT	99.60
		PM	15.0000	LB/MMCF	
		CO	17.0000	LB/MMCF	
		VOC	3.0000	LB/MMCF	
		NOX	161.0000	LB/MMCF	
				LOW NOX BURNERS	
		SO2	0.6000	LB/MMCF	30.00
POWER GENERATION FACILITY	2110.00 MMBTU/H				
		PM	0.0150	LB/MMBTU	
		CO	0.0170	LB/MMBTU	
		VOC	0.0030	LB/MMBTU	
		NOX	0.2500	LB/MMBTU	NSPS
				WATER WASH OF RETORT OFF GAS TO REMOVE NH3	97.00
		NOX	0.2000	LB/MMBTU	NSPS

		WATER WASH OF RETORT OFF GAS TO REMOVE NH3	97.00
SO2	0.1400	LB/MMBTU	
		REMOVE H2S BEFORE COMBUST.	99.60

(CONTINUED) PARAHO DEVELOPMENT CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS / CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PACKAGE BOILER	14.50 MMBTU/H #2 *			
		PM	2.0000 LB/MGAL	
		SO2	0.5000 % S CONTENT	
		CO	5.0000 LB/MGAL	
		VOC	1.0000 LB/MGAL	
		NOX	22.0000 LB/MGAL	
STORAGE TANKS, 4	53000.00 BBL			
		VOC		
CRUDE SHALE OIL STORAGE TANKS, 7	150000.00 BBL		INTERNAL FLOATING ROOF & PRIMARY SEAL	95.00
		VOC		
			EXT. FLOAT. ROOF W/PRIMARY & SEC. SEAL	95.00

NOTES ----------
.015 PM LIMITATION IS FOR LARGER BAGHOUSES ON CRUSHERS. PWR. GEN. - 3 STACKS GAS TURBINE & WASTE HEAT BOILER EA. BOILERS PROVI
DE 36.73% HEAT INPUT. 9 OTHER TANKS WILL CONTAIN EITHER #2 FUEL OIL, PROPANE (CRYOGENIC) , DIESEL FUEL OR
GASOLINE. NONE OF THEM SUBJECT TO NSPS. SO2 EMISSIONS FROM POWER GENERATION FACILITIES INCLUDE RETORT OFF GAS AND WASTE WATER
TREATE ACID GAS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 2.00 MBBL/D

COMPANY NAME/SITE LOCATION RIO BLANCO OIL SHALE-#1 NEAR RANGELY, CO

RIO BLANCO COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/20/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 BOILERS	198.00 MMBTU/H				
HEATER	5.00 MMBTU/H	NOX	39.6000 LB/H		BACT
LURGI RETORT	2000.00 BBL/D OIL S*	NOX	1.0000 LB/H		BACT
		NOX	127.0000 LB/H		
		SO2	18.0000 LB/H	RETENTION	BACT
		PM	39.8000 LB/H	ESP	BACT 99.80
ORE CONV-STKPILE	4400.00 T/D SHALE	PM	0.4000 LB/H	BAGHOUSE	BACT 99.00
ORE TRANSFER	4400.00 T/D SHALE	PM	0.4000 LB/H	BAGHOUSE	BACT 99.00
ORE LOADOUT	4400.00 T/D SHALE	PM	0.0800 LB/H	BAGHOUSE	BACT 99.00

(CONTINUED) RIO BLANCO OIL SHALE-#1

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PRIM. CRUSH/SCR	4400.00 T/D SHALE	PM	0.2400 LB/H	BAGHOUSE	BACT 99.00
PROC SHALE TRANS.,FEED	4400.00 T/D SHALE	PM	0.4000 LB/H	BAGHOUSE	BACT 99.00
PROC SHALE TRANS. DISP	4400.00 T/D SHALE	PM	0.4000 LB/H	BAGHOUSE	BACT 99.00
SEC. CRUSH/SCR	4400.00 T/D SHALE	PM	0.3200 LB/H	BAGHOUSE	BACT 99.00
PROD. GAS INC/SCRUB	70.00 MMBTU/H	SO2	9.7000 LB/H	SCRUBBER	BACT 80.00
		NOX	24.0000 LB/H		

NOTES ----------
THREE YEAR OPERATION PLANNED.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

ID NUMBER CO-0013

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 50.00 MMBTU/H

COMPANY NAME/SITE LOCATION TEXAS TAR SANDS, LTD LAPRYOR, TX

MAVERICK COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 9075
DETERMINATION MADE BY TEXAS ACB (AGENCY) JAMES CROCKER (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 06/24/82
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
STEAM GENERATOR	50.00 MMBTU/H				
		PM	0.0940 LB/MMBTU	FABRIC FILTER	
		SO2	1.2000 LB/MMBTU	LIMESTONE INJECTION	99.30
COAL & LIMESTONE STORAGE/HANDLI*					78.00
		PM	1.3000 LB/H	DUST CONTROL SYSTEM	

NOTES ----------
THIS IS A COAL FIRED SYSTEM. EMISSIONLIMITS ARE BACT, DETERMINED BY TECHNOLOGY & ECONOMICS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER TX-0085

SOURCE TYPE CODE 5.14

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 45.00 MBBL/D

COMPANY NAME/SITE LOCATION TOSCO OIL SHALE-1981 NEAR BONANZA, UT

UINTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 12/09/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
2 AUX BOILERS					
		CO	2.9000 LB/H		
		NOX	18.0000 LB/H		BACT
				DESIGN	BACT
		PM	3.2000 LB/H		
		SO2	8.0000 LB/H		BACT
FEED HEATER				LOW S COAL	BACT
		CO	1.1000 LB/H		
		NOX	7.0000 LB/H		BACT
		PM	1.2000 LB/H		BACT
MINE VENTS		SO2	3.1000 LB/H		BACT
					BACT
		PM	10.6000 LB/H		
			14.9000 LB/H		BACT
OIL REBOILER				SETTLING	
		CO	1.5000 LB/H		
		NOX	9.1000 LB/H		BACT
		PM	1.6000 LB/H		BACT
		SO2	4.0000 LB/H		BACT
				LOW S FUEL	BACT

(CONTINUED) TOSCO OIL SHALE-1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ORE STORAGE					
RECL TUNNEL		PM	4.7000 LB/H	BAGHOUSE	BACT 99.70
SEC CRUSHER		PM	6.2000 LB/H	BAGHOUSE	BACT 99.70
SPENT SHALE STOR	45.00 MBBL/D	PM	36.6000 LB/H	BAGHOUSE	BACT 99.70
2 SO2 REC.PLANTS		PM	7.9000 LB/H	WATER	BACT 50.00
4 REFORM FURN		SO2	92.2000 LB/H	CLAUS &TAILGAS	BACT 99.60
		CO	10.8000 LB/H		
		NOX	90.3000 LB/H		BACT
		PM	12.0000 LB/H		BACT
		SO2	30.1000 LB/H		BACT
6 ELUTRIATORS				LOW S FUEL	BACT
		NOX	15.8000 LB/H		
		PM	42.0000 LB/H		BACT
				SCRUBBER	BACT
6 PROCESS SHALE WET		SO2	5.3000 LB/H		99.99
					BACT
		PM	43.2000 LB/H		
				SCRUBBER	BACT 98.40

(CONTINUED) TOSCO OIL SHALE-1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
6 PREHEAT STK					
		VOC	303.0000 LB/H		
				INCINERATOR	BACT
		NOX	1588.2000 LB/H		85.00
		PM	90.0000 LB/H		BACT
				SCRUBBER	BACT
		SO2	62.5000 LB/H		99.99
				ABSCRPTION	BACT
					95.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 10.00 MBBL/D

COMPANY NAME/SITE LOCATION UNION OIL SHALE #1 NEAR PARACHUTE, CO

GARFIELD COUNTY

DETERMINATION IS
PERMIT NO.
DETERMINATION MADE BY EPA REGION VIII (AGENCY) JOHN DALE (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/27/81
ESTIMATED DATE OF START-UP--
(303)-837-3763 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
H2 CHG HTR	24.00 MMSCFD				
		NOX	2.8000 LB/H DESIGN		BACT
DEARSENITER PURGE HTR					
		NOX	1.8000 LB/H DESIGN		BACT
DEARSENITER CHARGE HTR					
		NOX	2.3000 LB/H DESIGN		BACT
FRACT CHG HTR					
		NOX	2.5000 LB/H DESIGN		BACT
REFORMER FURN					
		NOX	53.1000 LB/H DESIGN		BACT
STEAM BOILER					
		NOX	12.0000 LB/H DESIGN		BACT 99.90

(CONTINUED) UNION OIL SHALE #1

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SULFUR REC.UNIT	12.00 T/D				
		SO2	300.0000 PPM		BACT
			1.9000 LB/H		
				CLAUS&TAIL GAS	99.90

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- CRUDE OIL/NAT. GAS PRODUCTION (INCL. OIL SHALE) 106000.00 BPSD

COMPANY NAME/SITE LOCATION WHITE RIVER SHALE OIL CORP. BONANZA, UT

UINTAH COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. MAJ 053082-IT
DETERMINATION MADE BY UTAH BAQ (AGENCY) CARL BROADHEAD (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 08/04/82
ESTIMATED DATE OF START-UP-- 1988
(801)-533-6108 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
IN-MINE PRIMARY CRUSHING	89000.00 TPSD	PM		WET SUPPRESSION	80.00
CRUSHING & SCREENS	176000.00 TPSD	PM	0.0200 GR/DSCF	BAGHOUSE	99.70
MINE CONVEYOR SURGE BIN	176000.00 TPSD	PM	0.0130 GR/DSCF	BAGHOUSE	99.70
MINE CONVEYOR TRANSFER POINTS	176000.00 TPSD	PM	0.0130 GR/DSCF	BAGHOUSE	99.70
FEED TO STORAGE SILOS	176000.00 TPSD	PM	0.0130 GR/DSCF	BAGHOUSE	99.70
SURFACE CRUSHING & SCREENS	176000.00 TPSD	PM	0.0130 GR/DSCF	BAGHOUSE	99.70

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
FINES CONVEYOR, POINTS TRANSFER	900.00 TPSD				
		VE	20.0000 % OPACITY	WET SUPPRESSION	80.00
CONVEYORS					
		PM	0.0130 GR/DSCF	FULLY COVERED	90.00
UNION RETORT SILO FEED	46400.00 TPSD				
		PM	0.0130 GR/DSCF	BAGHOUSE	99.70
SUPERIOR RETORT SILO FEED	112000.00 TPSD				
		PM	0.0130 GR/DSCF	BAGHOUSE	99.70
TOSCO RETORT SILO FEED	18500.00 TPSD				
		PM	0.0130 GR/DSCF	BAGHOUSE	99.70
UNION PROCESSED CONVEYOR SHALE	39550.00 TPSD				
		VE	20.0000 % OPACITY	FULLY COVERED CONVEYORS 20% MOISTURE	99.00
SUPERIOR PROCESSED CONVEYOR SHA*	84000.00 TPSD				
		VE	20.0000 % OPACITY	FULLY COVERED CONVEYORS 20% MOISTURE	99.00
MAIN ACCESS ROADS					
		PM		PAVE PAVING	95.00
2ND LIGHT DUTY ROADS					
		PM		MINIMIZE CHEMICAL SUPPRESSION	75.00

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TOSCO PROCESSED CONVEYOR SHALE	15000.00 TPSD				
		PM		MINIMIZE	
				20% MOISTURE COVERED CONVEYORS	99.00
PROCESSED SHALE CONVEYOR TRANSF*	149500.00 TPSD				
		VE	20.0000 % OPACITY		
				15 % MOISTURE ENCLOSED	99.00
PROCESSED SHALE DISPOSAL	149500.00 TPSD				
		PM		MINIMIZE	
				CHEM. DUST SUPPRES. COMPACT.,REVEG.	85.00
LOAD IN	149500.00 TPSD				
		VE	20.0000 % MINIMIZE		
				15% WATER	80.00
GROOMING	112.00 SCRAPER H/D				
		VE	20.0000 % OPACITY		
				WATERING	50.00
WIND EROSION	30.00 ACRE				
		PM		MINIMIZE	
				COMPACT. REVEG. & CHEM. DUST SUPPRES.	85.00
LOAD IN, RAW SHALE STOCKPILE	5000.00 TPSD				
		PM		MINIMIZE	
				LOWERING WELL	75.00
LIVE STORAGE WIND EROSION, RAW *	175000.00 T				
		PM		MINIMIZE	
				WATER SPRAYS	50.00
GROOMING, RAW SHALE STOCKPILE	5000.00 TPSD				
		PM		MINIMIZE	
				WATER SPRAYS	50.00
DEAD STORAGE WIND EROSION, RAW *	2.80 MMT				

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
PHASE III-UNION B RECYCLE GAS H*	960.00 MMBTU/H				
		PM	0.0210 LB/MMBTU		
			5.0000 LB/H STACK		
		SO2	0.0230 LB/MMBTU		
			5.5000 LB/H STACK		
				TREATED GAS & UPGRADED SHALE OIL	
		NOX	0.0220 LB/MMBTU		
			53.1000 LB/H STACK		
				LOW NOX BURNERS	
PHASE III - HYDRO TREATER REACT*	150.00 MMBTU/H				
		PM	0.0200 LB/MMBTU		
			2.6000 LB/H STACK		
		SO2	0.1600 LB/MMBTU		
			10.0000 LB/H STACK		
				CLEANED & TREATED HIGH BTU FUEL GAS	
		NOX	0.2600 LB/MMBTU		
			39.0000 LB/H STACK		
TOSCO PREHEAT & BALL HEATERS	479.00 MMBTU/H				
		PM	0.0240 GR/DSCF		
			22.5000 LB/H STACK		
				VENTURI SCRUBBER	99.50
		SO2	0.0020 GR/DSCF		
			0.5000 LB/H STACK		
				TREATED FUELS	50.00
		NOX	0.2200 GR/DSCF		
			51.9000 LB/H STACK		
				LOW-NOX BURNERS	
BOILER & POWER PLANTS (3 STK)	2438.00 MMBTU/H				
		PM	0.0300 LB/MMBTU		
			73.2000 LB/H		
		SO2	0.0700 LB/MMBTU		
			166.9000 LB/H		
				FGD	80.00
				CLEANED & TREATED FUEL GAS, UPGRADED SHALE OIL	
		NOX	0.2000 LB/MMBTU		
			487.5000 LB/H		

(CONTINUED) WHITE RIVER SHALE OIL CORP.

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
H2 PLANT REFORMER FURNACE	2058.00 MMBTU/H				
		PM	0.2000 LB/MMBTU		
			25.8000 LB/H		
		SO2	0.0070 LB/MMBTU		
			9.0000 LB/H		
				CLEANED, TREATED & UPGRADED FUELS	
		NOX	0.2100 LB/MMBTU		
			267.8000 LB/H		
NAPTHA & CRUDE STORAGE TANKS				LOW-NOX BURNERS	25.00
GAS TREATMENT PLANT, 3 UNITS	28.00 MMBTU			FLOATING ROOF TANKS W/DBL SEALS	
		SO2	250.0000 PPMV AT 0% O2		
		PM			
FUEL GAS TREATED HIGH BTU		NOX		TREATED HIGH BTU FUEL GAS	
		H2S	0.1000 GR/DSCF		
		T.S*	0.4900 GR/DSCF		
FUEL GAS TREATED LOW BTU		NH3	10.0000 PPMV		
		S	75.0000 PPMV		
		NH3	10.0000 PPMV		

NOTES ----------
THE FEASIBILITY APPROVAL ORDER IS BASED ON BACT AS OF 1982. THIS IS A PHASE CONSTRUCTION PROJECT. EACH UNIT OF EACH PHASE WILL BE PERMITED BASED ON THE "THEN CURRENT" BACT. TPSD = TON PER STREAM DAY
DIESEL FUEL SULFUR LIMIT - 0.20% BY WT. FUEL OIL - S = 20 PPMV , NH3 = 1500 PPMV.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OIL AND GAS FIELD SERVICE 100000.00 LB/D

COMPANY NAME/SITE LOCATION DRLGMUD CO. , TX

FORT BEND COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X-3973
DETERMINATION MADE BY TEXAS ACB (AGENCY) ROBERT MAUEL (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)

DATE OF PERMIT ISSUANCE-- 12/22/81
ESTIMATED DATE OF START-UP-- 1982

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SILO & LOADING	100000.00 LB/D				
VENT HOUSE TRAFFIC		BAR*	0.1000 LB/H	SHOP MADE FABRIC FILTER	99.10
		PM	0.9000 LB/H		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 05/04/1984

ID NUMBER TX-0116

SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OIL AND GAS FIELD SERVICE 306.00 MMGAL/YR

COMPANY NAME/SITE LOCATION SIGMOR PIPELINE CO. SAN ANTONIO, TX

BEXAR COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. 6348
DETERMINATION MADE BY TEXAS ACB (AGENCY) SAM CROWTHER (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/27/78
ESTIMATED DATE OF START-UP-- 1979
(512)-451-5711 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GASOLINE LOADING 3 RACKS (12 SP*	306.00 MMGAL/YR	VOC	23.6000 T/YR 0.1250 LB/MGAL VOC	CARBON ADSORPTION	AP42 97.50
DIESEL/KERO LOADING	153.00 MMGAL/YR	VOC	14.1000 T/YR	BOTTOM LOADING (SEE NOTE)	AP42 0.00
STORAGE TANKS (7)	217.00 MGAL	VOC	25.0000 T/YR	INT. FLOAT COVERS, WHITE TANKS	AP42 97.00
FUGITIVE VOC		VOC	12.0000 T/YR	NONE	0.00

NOTES ----------
CARBON ADSORPTION UNIT PURCHASE PRICE =$240,000 NOTE - BOTTOM LOADING IS CONSIDERED UNCONTROLLED, FUGITIVE VOC ESTIMATED ONLY

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- OIL AND GAS FIELD SERVICE 2000.00 HP EA,NAT. GAS, 3

COMPANY NAME/SITE LOCATION UNITED GAS PIPE LINE CO. CARTHAGE, TX

PANOLA COUNTY

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. X1480
DETERMINATION MADE BY TEXAS ACB (AGENCY) JIM CARAWAY (AGENCY CONTACT PERSON) (512)-451-5711 (PHONE)
DATE OF PERMIT ISSUANCE-- 05/07/80
ESTIMATED DATE OF START-UP-- 1981

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SUPERIOR COMPRESSOR ENGINE	2000.00 HP	NOX	4.2000 G/BHP-H	TURBOCHARGED	

NOTES ----------
SUPERIOR TURBOCHARGED "CLEAN BURN" 2000 1P ENGINE, MODEL 12 SGTA, SN 281319. ENGINE SAMPLED BY EPA --APPROVED METHOD 20 ON 3-2 5-82. NOX EMISS. BASED ON TEST RESULTS WERE .782 G/BHP-HR

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER TX-0084

SOURCE TYPE CODE 5.15

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION BEAR CREEK STORAGE BIENVILLE, LA BIENVILLE PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-LA-85
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/22/79
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. COMPRESSOR, 4	7000.00 HP EA	NOX	11.7000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	1.4000 G/HP-H	AIR/FUEL RATIO	BACT
GAS HEATERS, 3	UNKNOWN	NOX	2.1000 LB/H	AIR/FUEL RATIO	BACT
REGENERATOR HEATERS, 3	UNKNOWN	NOX	0.4000 LB/H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER LA-0023

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER 525600.00 MMGAL/YR

COMPANY NAME/SITE LOCATION CHEVRON USA, INC. , UT
DAVIS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY UTAH BAQ (AGENCY) DONALD ROBINSON (AGENCY CONTACT PERSON) (801)-533-6108 (PHONE)
DATE OF PERMIT ISSUANCE-- 07/08/82
ESTIMATED DATE OF START-UP-- 1983

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
SEPARATOR	525.60 MMGAL/YR	VOC	STEEL COVER-TOTAL	95.00

NOTES ----------
AIR TIGHT STEEL COVER PLATES OVER THE ENTIRE SEPARATOR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983 02/13/1984

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION COLORADO INTERSTATE GAS
P.O. BOX 1087 COLORADO SPRINGS, OK 80944

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-358 DATE OF PERMIT ISSUANCE-- 02/26/81
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOE WINKLER (AGENCY CONTACT PERSON) ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	2700.00 HP				
		NOX	0.0010 G/HP-H	TURBOCHARGED CLEAN BURN	BACT
		CO	0.0010 G/HP-H	EFFICIENT COMBUSTION	BACT
		SO2	0.0010 G/HP-H	EFFICIENT OPERATION	BACT
		VOC	0.0010 G/HP-H	EFFICIENT COMBUSTION	BACT
		PM		EFFICIENT COMBUSTION	BACT
EMERGENCY GEN.	370.00 HP				
		NOX	10.9000 G/HP-H	NORMAL OPERATION	BACT
		CO	1.4000 G/HP-H	NORMAL OPERATION	BACT
		SO2	0.0010 G/HP-H	NORMAL OPERATION	BACT
		VOC	0.8400 G/HP-H	NORMAL OPERATION	BACT
		PM		NORMAL OPERATION	BACT

(CONTINUED) COLORADO INTERSTATE GAS

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
BOILER	2.60 MMBTU/H				
		NOX	0.3200 LB/H	NORMAL OPERATION	BACT
		CO	0.0500 LB/H	NORMAL OPERATION	BACT
		SO2	0.0020 LB/H	NORMAL OPERATION	BACT
		VOC		NORMAL OPERATION	BACT
		PM	0.0130 LB/H	NORMAL OPERATION	BACT

NOTES ----------
OPERATED ONLY DURING POWER OUTAGES. BOILER OPERATED ONLY DURING COLD WEATHER.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER CR-0006

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION HOUSTON PIPE LINE CO.
HOUSTON NAT. GAS BLDG 14TH FL. HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-313
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/30/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINES, 4 TURBO.	2400.00 HP EA				
		NOX	60.8000 LB/H 11.5000 G/HP-H	AIR/FUEL RATIO CONTROL	BACT
DEHYDRATORS, 2	1.25 MMBTU/H EA				
		NOX	0.1500 LB/H 0.1200 LB/MMBTU	COMBUST. CONTRL, EFF. DESIGN	BACT

NOTES ----------
EACH OF THE I.C. ENGINES WERE LIMITED TO 0.65 G/HP-H FOR CO, HOWEVER, POLLUTANT WAS NOT REVIEWED UNDER PSD.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION OASIS PIPELINE CO.
1200 TRAVIS, BOX 1188 HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO.
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 10/06/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	1350.00 HP EA				
		NOX	6.8600 G/HP-H	LOW EX. AIR -- AIR/FUEL RATIO	BACT 37.00
		VOC	0.7000 G/HP-H	EFFICIENT COMBUSTION	BACT
		CO	1.4000 G/HP-H	EFFICIENT COMBUSTION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION ODESSA NATURAL CORP. CISCO, TX EASTLAND COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-368
DETERMINATION MADE BY EPA REGION VI (AGENCY) BILL TAYLOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/02/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE	7660.00 HP				
		NOX	1.3000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	0.5000 G/HP-H	AIR/FUEL RATIO	BACT
I. C. ENGINES, 2 EA	1560.00 HP				
		NOX	6.5000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	2.2000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE ALVA, OK

WOODS COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-330
DETERMINATION MADE BY EPA REGION VI (AGENCY) BILL TAYLOR (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 05/29/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE, 3 EA	4500.00 HP	NOX	6.0000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	4.8000 G/HP-H	AIR/FUEL RATIO	BACT
I.C. ENGINE	631.00 HP	NOX	11.5000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	5.5000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

ID NUMBER OK-0008

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE
CASHION STATION
CASHION, OK
KINGFISHER COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-OK-329
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 05/08/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I. C. ENGINE, 2 EA	4500.00 HP				
		NOX	9.0000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	9.0000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE , TX 64141

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-321
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	771.00 HP				
		NOX	11.5000 G/HP-H	AIR/FUEL RATIO	BACT
		VOC	1.7000 LB/H	EFFICIENT COMBUSTION	BACT
		CO	5.7000 G/HP-H	EFFICIENT COMBUSTION	BACT
		NH3	0.0090 LB/H	EFFICIENT COMBUSTION	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE
6 KM SW GARNER OIL FD. , TX 64141
CARSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-320
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE	771.00 HP EA				
		NOX	11.5000 G/HP-H	AIR/FUEL RATIO	BACT
		VOC	13.5000 LB/H	EFFICIENT COMBUSTION	BACT
		CO	5.7000 G/HP-H	EFFICIENT COMBUSTION	BACT
		NH3	0.6800 LB/H	EFFICIENT COMBUSTION	BACT

NOTES ----------
AIR/FUEL RATIO WITH A RESULTANT 2% FUEL SACRIFICE

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PANHANDLE EAST. PIPELINE AMARILLO, TX

CARSON COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. PSD-TX-322
DETERMINATION MADE BY EPA REGION VI (AGENCY) TOM DIGGS (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 02/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINES, 3	771.00 BRAKE HP EA				
		NOX	11.5000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	5.7000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION PETRO-LEWIS CORP. , CA

DETERMINATION IS LAER FOR A NEW SOURCE.
PERMIT NO. 4052033-037
DETERMINATION MADE BY KERN COUNTY APCD (AGENCY) TOM PAXSOM (AGENCY CONTACT PERSON) (805)-861-3682 (PHONE)
DATE OF PERMIT ISSUANCE-- 02/23/84
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
GENERATOR, STEAM, 5 EA	62.50 MMBTU/H				
		PM	0.0340 LB/MMBTU		
			50.6600 LB/D		
				WET SCRUBBER	
		SOX	0.0230 LB/MMBTU		61.00
			34.8100 LB/D		
				VENTURI SCRUBBER	
		NOX	0.1200 LB/MMBTU		30.00
			181.3000 LB/D		
				STAGED COMBUSTION	70.00

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

ID NUMBER CA-0058

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION REFINERY WASTE GAS RECOVERY , CA
KERN COUNTY

DETERMINATION IS
PERMIT NO. SEE NOTE
DETERMINATION MADE BY KERN COUNTY APCD (AGENCY) TOM PAXSON (AGENCY CONTACT PERSON)

DATE OF PERMIT ISSUANCE-- 03/19/84
ESTIMATED DATE OF START-UP--
(805)-861-3682 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
VAPOR COMPRESSOR, VALVES, & FLA*	720000.00 SCF/D	VOC	28.9000 LB/D	I & M TO MINIMIZE FUG. EMIS.	65.00

NOTES ----------
NOTE -- PERMITS NUMBERS 2018008A, 2018012B, 2018046A, 2018062. SOURCE WILL OPERATE 24 H/D, 7 D/WEEK, 52 WEEK/YR.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER 8200.00 BBL/D

COMPANY NAME/SITE LOCATION SHELL OIL CO. , MS 70161

PIKE COUNTY

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. MS 025
DETERMINATION MADE BY MISSISSIPPI DNR (AGENCY) DWIGHT WILEY (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/17/80
ESTIMATED DATE OF START-UP--
(601)-354-2550 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
CO2 INJECTION	8200.00 BBL/D	NOX	BEST OPERATING PRACTICE	BACT

NOTES ----------
8 COMPRESSOR UNITS -- 2 AT 102.5 HP, 3 AT 205 HP, 2 AT 1460 HP, AND 1 AT 1100 HP (STANDBY). ONE EMERGENCY UNIT.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER MS-0002

SOURCE TYPE CODE 5.16

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS BIENVILLE, LA
BIENVILLE
BIENVILLE PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-406
DETERMINATION MADE BY EPA REGION VI (AGENCY) BILL TAYLOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 09/11/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINES, 2 EA	448.00 BRAKE HP	NOX	11.0000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SOUTHERN NAT. GAS FRANKLINTON, LA

WASHINGTON PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-267
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/17/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE	5000.00 HP				
		NOX	182.0000 LB/H		BACT
		CO	4.0000 LB/H		BACT
			AIR/FUEL RATIO		

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

ID NUMBER LA-0021

SOURCE TYPE CODE 5.16

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION SUN GAS CO.
THREE NORTH PARK EAST ST. DALLAS, TX

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-TX-R72
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 02/26/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE, 2	1200.00 HP				
		NOX	9.1000 G/HP-H	AIR/FUEL RATIO,IGNITION RETARD	BACT
		CO	1.2000 G/HP-H	AIR/FUEL RATIO,IGNITION RETARD	BACT
COMPRESSOR	600.00 HP				
		NOX	9.1000 G/HP-H	AIR/FUEL RATIO,IGNITION RETARD	BACT
		CO	1.2000 G/HP-H	AIR/FUEL RATIO,IGNITION RETARD	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC. EAST COTE BLANCHE BAY, LA

IBERIN PARISH

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-382
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BENHAM (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/30/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. ENGINE 2	1560.00 BRAKE HP	NOX	10.0000 G/HP-H	AIR/FUEL RATIO	BACT
I.C. ENGINE 1	40.00 BRAKE HP	CO	10.0000 G/HP-H	AIR/FUEL RATIO	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC.
P.O. BOX 60252 NEW ORLEANS, LA 70160

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-381
DETERMINATION MADE BY EPA REGION VI (AGENCY)
JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 07/27/81
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I.C. COMPRESSOR ENGINE, TURBOCH*	1650.00 HP				
		NOX	6.5000 G/HP-H	AIR/FUEL RATIO	BACT
		CO	1.3000 G/HP-H	NORMAL OPERATION	BACT
GEN. DRIVER, 2 EA	360.00 HP				
		NOX	10.0000 G/HP-H	NORMAL OPERATION	BACT
		CO	10.0000 G/HP-H	NORMAL OPERATION	BACT

NOTES ----------
ONE GENERATOR DRIVER IS A STANDARD UNIT. NATURAL GAS USED AS FUEL.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER 6300.00 HP

COMPANY NAME/SITE LOCATION TEXACO, INC.
1501 CANAL ST., P.O. BOX 60252 NEW ORLEANS, LA

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-301
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/29/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
ENGINE, I.C., TURBOCHARGED	2650.00 HP	NOX	43.7000 LB/H 7.5000 G/HP-H	IGN. TI. RETARD ENG. SPARK	BACT
TURBINE COMPRESSOR, GAS-FIRED	3300.00 HP	NOX	9.4000 LB/H 1.3000 G/HP-H		NSPS
I.C. ENGINE, NAT. ASPIRATED	350.00 HP	NOX	7.7000 LB/H 10.0000 G/HP-H	AIR/FUEL RATIO CONTROL	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TEXACO, INC. 1501 CANAL ST NEW ORLEANS, LA 70160

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-300
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 08/29/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
I. C. ENGINE, TURBOCHARGED	2650.00 HP	NOX	7.5000 G/HP-H 43.7000 LB/H	CON IGN TIM/RETARD ENGINE SPARK	BACT
I. C. ENGINE, TURBOCHARGED	2650.00 HP	NOX	7.5000 G/HP-H 43.7000 LB/H	CON IGN TIM/RETARD ENGINE SPARK	BACT
TURBINE, GAS FIRED, COMPRESSION	3500.00 HP	NOX	1.8000 G/HP-H 14.2000 LB/H	NONE	BACT
I. C. ENGINE, NAT. ASPIRATED	500.00 HP	NOX	10.0000 G/HP-H 11.0000 LB/H	AIR/FUEL RATIO CONTROL	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION TRUNKLINE LNG CO. LAKE CHARLES, LA

CALCASIEU PARISH

DETERMINATION IS BACT FOR A NEW SOURCE.
PERMIT NO. PSD-LA-97,M-1
DETERMINATION MADE BY LAQD/EPA REGION VI (AGENCY) BHARAT CONTRACTOR (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 04/25/83
ESTIMATED DATE OF START-UP--
(504)-342-8940 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
TURBINE, GAS, 2	105.00 MMBTU/H	NOX	79.0000 LB/H	COMB. CONTRL, O2 & CO MONITOR	N/A
VAPORIZER, LNG, 7 EA	72.54 MMBTU/H	NOX	3.8600 LB/H	COMBUSTION CONTROL	N/A
HEATER, FUEL GAS, 2 EA	3.50 MMBTU/H	NOX	0.6300 LB/H		N/A

NOTES ----------
THE ORIGINAL PERMIT, PSD-LA-97, WAS ISSUED ON 02/09/79 BASED ON 75. PPM NOX EMISSION LIMITS UNDER NSPS. HOWEVER, THE NSPS AMME NDED ON 01/27/82, SPECIFICALLY EXEMPTED THESE TURBINES FROM H2O INJECTION CONTROLS.

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW POST STARTUP

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED GAS PIPE LINE CO. HOUSTON, LA 77001
P.O. BOX 1478

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. (REGION FILE NO.) PSD-LA-230
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON) (214)-767-1594 (PHONE)
DATE OF PERMIT ISSUANCE-- 03/04/80
ESTIMATED DATE OF START-UP--

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE, 3 EA	3500.00 HP	NOX	107.9000 LB/H EA 30.8000 LB/MHP-H	CON. AIR/FUEL RATIO, IGN. TIM.	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

REVIEW STATUS: INITIAL REVIEW 04/01/1983 POST STARTUP

APPENDIX -- DETAILED SOURCE LISTING

05/22/1984

SOURCE TYPE/SIZE--- PETROLEUM INDUSTRY -- OTHER

COMPANY NAME/SITE LOCATION UNITED PIPE LINE CO.
P.O. BOX 1478 HOUSTON, TX 77001

DETERMINATION IS BACT FOR A MODIFIED SOURCE.
PERMIT NO. TX-211
DETERMINATION MADE BY EPA REGION VI (AGENCY) JOHN BUNYAK (AGENCY CONTACT PERSON)
DATE OF PERMIT ISSUANCE-- 03/04/80
ESTIMATED DATE OF START-UP--
(214)-767-1594 (PHONE)

PROCESSES SUBJECT TO THIS PERMIT	THROUGHPUT CAPACITY	POLLUTANT EMITTED	EMISSION LIMITS	CONTROL EQUIPMENT OR PROCESS MODIFICATION	... & BASIS ... PCT EFF
COMPRESSOR ENGINE, 3	1000.00 HP EA				
		NOX	31.5000 LB/H 31.5000 LB/MHP-H	CNTRL AIR/FUEL RATIO, IGN TIM.	BACT

NOTES ----------

(*) INDICATES DATUM WAS TRUNCATED FOR THIS TABLE.

INITIAL REVIEW POST STARTUP
REVIEW STATUS: 04/01/1983

ID NUMBER TX-0070

SOURCE TYPE CODE 5.16